



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Agency Interest No. 2455
Activity No.: PER20050018

Mr. Charles P. Freeburgh
General Manager, Operations – Chemicals and Polymers
Georgia Gulf Chemicals and Vinyls, L.L.C.
P.O. Box 629
Plaquemine, LA 70765-0629

RE: Part 70 Operating Permit; PVC Plant; Georgia Gulf Chemicals and Vinyls, L.L.C.; 26100 Highway 405 South; Plaquemine; Iberville Parish; Louisiana

Dear Mr. Freeburgh:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 16th of February, 2010, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006.

Permit No.: 881-V2

Needs Public

Notice

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.Louisiana.GOV

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
GEORGIA GULF CHEMICALS AND VINYLs, L.L.C.
PVC PLANT
PROPOSED PART 70 AIR OPERATING PERMIT MODIFICATION

The LDEQ, Office of Environmental Services, is accepting written comments on a proposed Part 70 air operating permit modification for Georgia Gulf Chemicals and Vinyls, L.L.C. (Georgia Gulf), P.O. Box 629, Plaquemine, LA 70765 for the PVC Plant. **The facility is located at 26100 Highway 405 South, Plaquemine, Iberville Parish.**

Georgia Gulf proposes to modify its current PVC Part 70 air operating permit, Permit No. 881-V1, as follows:

1. Georgia Gulf requests authorization for a proposed project to modernize its PVC Plant through the installation of a new PVC production train. This project will increase production capacity by approximately 450 million pounds annually. New emission sources included with this project are as follows: Dryer 9 Centrifuges (EIQ No. 2-05), Blend Tank No. 6/Dryer No. 9 (EIQ No. 3-05), PVC Cooling Tower No. 2 (EIQ No. 6-05), Dryer Screener Overs Recovery System (EIQ No. 7-05), and Air Lock Vent Receiver (EIQ No. 8-05).
2. Georgia Gulf proposes to establish a plant-wide emissions cap (EIQ No. V-CAP) for operational flexibility on both average hourly and annual emissions of particulate matter (PM10), volatile organic compounds (VOCs), chloroform, methanol, phenol, and vinyl chloride.
3. Georgia Gulf proposes to establish a maximum hourly limit on vinyl chloride monomer (VCM) and VOC emissions downstream of the PVC slurry strippers for each production train (EIQ Nos. V-1 through V-5 and V-Develop).
4. Georgia Gulf requests approval to operate Day Tank No. 9 and Day Tank No. 10 (EIQ No. 2-82 and 3-82, respectively) as dual service tanks. These tanks currently store PVC product, but Georgia Gulf is proposing to also use them to store centrate water. When storing PVC product, the tanks shall control particulate emissions using a baghouse; when storing centrate water, the baghouse requirement will not apply since there will be no particulate emissions when in this service.
5. Georgia Gulf requests the transfer of PVC Cooling Tower No. 1 (EIQ No. 11-99) and the PVC Lamellae System (EIQ No. 12-99) from the Title V operating permit application for the Wastewater Utilities Plant to this permit to allow all cooling towers associated with the PVC plant and all equipment being modified or constructed as part of the PVC Plant modernization project to be included in a single Title V permit.
6. The regulatory applicability analysis and tables for several sources in the PVC Plant were updated.
7. The maximum hourly Plantwide Fugitive Emissions (EIQ No. 1-86A) of vinyl chloride were reconciled based on more accurate data.
8. Fugitives from Dumpster Storage were removed from the GC XVII activities list in the permit application and included as an emission point (EIQ No. 9-05).
9. The General Condition XVII (GC XVII) and Insignificant Activity lists were updated.

Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	33.22	54.80	+ 21.58
SO ₂	-	-	-
NO _x	-	-	-
CO	-	-	-
VOC	48.43	49.27	+ 0.84

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Thursday, March 16, 2006.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application, proposed permit and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). Additional copies may be reviewed at the Iberville Parish Library Headquarters, 24605 J. Gerald Berret Blvd., Plaquemine, Louisiana 70764.

Inquiries or requests for additional information regarding this permit action should be directed to Kyle A. Prestenbach, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3132.

Persons wishing to be included on the LDEQ permit public notice mailing list should contact Ms. Soumaya Ghosn in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3276, or by email at maillistrequest@ldeq.org.

Permit public notices can be viewed on the LDEQ Permits public Web page at WWW.deq.state.la.us/news/PubNotice/.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI 2455, Permit Number 881-V2, and Activity Number PER20050018.

Publication date: February 9, 2006.

**AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**PVC PLANT
AGENCY INTEREST NO.: 2455
GEORGIA GULF CHEMICALS AND VINYLS, L.L.C.
26100 HWY 405 SOUTH, PLAQUEMINE, IBERVILLE PARISH, LOUISIANA**

I. Background

Georgia Gulf Chemicals and Vinyls, L.L.C. (Georgia Gulf) owns and operates a polyvinyl chloride (PVC) plant in Plaquemine, Iberville Parish, Louisiana. The plant was built by Georgia Pacific in 1974. Georgia Gulf assumed operation of the unit in 1985. The PVC Plant currently operates under Permit No. 881-V1 issued on February 16, 2005.

This is the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire was submitted by Georgia Gulf on October 7, 2005 requesting a minor modification to Part 70 Operating Permit 881-V1. Additional information dated December 14, 2005, December 27, 2005, and January 19, 2006 was also received.

III. Description

Georgia Gulf produces polyvinyl chloride (PVC) resins by polymerizing vinyl chloride monomer (VCM) in batch reactors which convert approximately 85% of the VCM charged in each batch to PVC. The completed batches are then pumped into blowdown tanks where unreacted VCM flashes overhead to be reclaimed by condensation. The blowdown tanks also serve as holding tanks for continuous feed of the slurry stripping columns.

Residual VCM is steam stripped from the PVC slurry in columns. All equipment, upstream of and including the slurry stripper, vents to the VCM recovery system which consists of vacuum pumps, compressors, and four stages of condensers using chilled water. Condensed VCM is recycled to the process. Noncondensibles are routed to the VCM Plant incinerators.

In the drying area, PVC slurry is dewatered by centrifuges, dried by fluidized bed dryers, screened by sieves, and pneumatically conveyed to product silos. PVC product is then transferred to railroad hopper cars and trucks for shipment to customers.

Particulate emissions from the dryers are controlled by cyclones with at least 99.97% removal efficiency. Particulates from product day tanks and storage silos are controlled by cloth filters and baghouses with at least 99.98% removal efficiency.

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26100 HWY 405 SOUTH, PLAQUEMINE, IBERVILLE PARISH, LOUISIANA

In the Title V permit application submitted by Georgia Gulf on October 7, 2005, Georgia Gulf requests the following items:

- Georgia Gulf requests authorization for a proposed project to modernize its PVC Plant through the installation of a new PVC production train. This project will increase production capacity by approximately 450 million pounds annually. New emission sources included with this project are as follows: Dryer 9 Centrifuges (EIQ No. 2-05), Blend Tank No. 6/Dryer No. 9 (EIQ No. 3-05), PVC Cooling Tower No. 2 (EIQ No. 6-05), Dryer Screener Overs Recovery System (EIQ No. 7-05), and Air Lock Vent Receiver (EIQ No. 8-05).
- Georgia Gulf proposes to establish a plant-wide emissions cap (EIQ No. V-CAP) for operational flexibility on both average hourly and annual emissions of particulate matter (PM_{10}), volatile organic compounds (VOCs), chloroform, methanol, phenol, and vinyl chloride.
- Georgia Gulf proposes to establish a maximum hourly limit on vinyl chloride monomer (VCM) and VOC emissions downstream of the PVC slurry strippers for each production train (EIQ Nos. V-1 through V-5 and V-Develop).
- Georgia Gulf requests approval to operate Day Tank No. 9 and Day Tank No. 10 (EIQ No. 2-82 and 3-82, respectively) as dual service tanks. These tanks currently store PVC product, but Georgia Gulf is proposing to also use them to store centrate water. When storing PVC product, the tanks shall control particulate emissions using a baghouse; when storing centrate water, the baghouse requirement will not apply since there will be no particulate emissions when in this service.
- Georgia Gulf requests the transfer of PVC Cooling Tower No. 1 (EIQ No. 11-99) and the PVC Lamellae System (EIQ No. 12-99) from the Title V operating permit application for the Wastewater Utilities Plant to this permit to allow all cooling towers associated with the PVC plant and all equipment being modified or constructed as part of the PVC Plant modernization project to be included in a single Title V permit.
- The regulatory applicability analysis and tables for several sources in the PVC Plant were updated.
- The maximum hourly Plantwide Fugitive Emissions (EIQ 1-86A) of vinyl chloride were reconciled based on more accurate data.
- Fugitives from Dumpster Storage were removed from the GC XVII activities list in the permit application and included as an emission point (EIQ No. 9-05).

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- The General Condition XVII (GC XVII) and Insignificant Activity lists were updated.

Prevention of Significant Deterioration (PSD) Review and Non-attainment New Source Review (NNSR)

Georgia Gulf is located in the 5-parish Baton Rouge ozone non-attainment area. On June 15, 2005, the transition from a 1-hr National Ambient Air Quality Standard (NAAQS) to an 8-hr NAAQS for ozone occurred, resulting in a change in classification for the Baton Rouge ozone non-attainment area from severe (under the 1-hr NAAQS) to marginal (under the 8-hr NAAQS) non-attainment. Because of this reclassification, the Non-attainment New Source Review (NNSR) provisions found in LAC 33:III.504 and the Prevention of Significant Deterioration (PSD) provisions found in LAC 33:III.509 were revised. The final rule (AQ246FS) was signed and made effective on December 20, 2005.

In accordance with NNSR and PSD provisions, a netting analysis was performed in order to determine the applicability of New Source Review (NSR) permitting requirements for the proposed PVC modernization project. The tables below summarize the netting analysis performed for the proposed PVC modernization project.

NNSR Netting Analysis Summary

Pollutant	Significant Net Emissions Increase Trigger Values per LAC 33:III.504 (AQ246FS) (tpy)	Project-Related Net Emissions Increase (tpy)	NNSR Required? (Yes/No)
NO _x	40	5.05	No
VOC	40	6.88	No

The above summary indicates that NNSR is not required for the proposed PVC modernization project.

PSD Emissions Increase Analysis Summary

Pollutant	Significant Net Emissions Increase Trigger Values per LAC 33:III.509 (AQ246FS) (tpy)	Project-Related Net Emissions Increase (tpy)	PSD Review Required? (Yes/No)
PM / PM ₁₀	25 / 15	16.74 / 14.12	No / No
CO	100	29.46	No

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The above summary indicates that PSD review is not required for any applicable pollutant. Per the NSR rule (AQ246FS) signed on December 20, 2005, Vinyl chloride is no longer regulated under PSD regulations.

Permitted Emission Rates

Estimated emissions in tons per year (tpy) for the Georgia Gulf PVC Plant are as follows:

Pollutant	Before	After	Change
PM ₁₀	33.22	54.80	+ 21.58 ¹
SO ₂	-	-	-
NO _x	-	-	-
CO	-	-	-
VOC	48.43	49.27	+ 0.84

¹ Increase in emissions is due to the addition of sources 4-05, 5-05, and 6-05 from the PVC modernization project, and to the inclusion of sources 11-99 and 12-99 from the Wastewater Utilities Plant Title V permit application.

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):			
Pollutant	Before	After	Change
Chloroform ²	NP	0.20	+ 0.20
Methanol	11.64	12.95	+ 1.31
Phenol ²	NP	1.36	+ 1.36
Vinyl Chloride	11.86	10.73	- 1.13
Total	23.50	25.24	+ 1.74

² Included in this permit due to inclusion of cooling towers (EIQ Nos. 11-99, 12-99, and 6-05).

NP Not previously permitted.

Other VOC	24.03
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IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD), Non-Attainment New Source Review (NNSR), and New Source Performance Standards (NSPS) do not apply.

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The PVC Plant is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. LAC 33:III.Chapter 51 requires major sources emitting a Class I or Class II TAP in quantities greater than the Minimum Emission Rate (MER) listed for that pollutant in LAC 33:III.5112, Table 51.1 to control emissions of that pollutant to a degree that constitutes Maximum Achievable Control Technology (MACT). The PVC Plant emits vinyl chloride, a Group I TAP, and phenol and chloroform, Group II TAPs, at rates above their respective MERs listed in LAC 33:III.5112, Table 51.1. Sources in the PVC Plant emitting the above compounds require MACT. The PVC Plant also emits methanol, a Group III TAP, at a rate above its MER, but sources emitting methanol do not require MACT since it is a Group III TAP.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

Public comment is required for this permit for the following reasons:

1. The addition of a federally enforceable emissions cap (EIQ No. V-CAP) requires public comment.
2. New point source, EIQ No. 3-05, emits VCM at an amount greater than the MER listed in LAC 33:III.5112, Table 51.1. Per LAC 33:III.5107.D.1.b, public comment is required for any new point source emitting a Louisiana toxic air pollutant by an amount greater than the MER.

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on XXXX, 2006, and in the *Post/South*, Plaquemine, Louisiana, on XXXX, 2006. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on XXXX, 2006. All comments will be considered prior to final permit decision.

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VII. Effects on Ambient Air

Dispersion Model(s) Used: <NONE>

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (NAAQS)
N/A			

VIII. General Condition XVII Activities

Activity ID No.	Activity	Frequency of Activity
01-GCXVII	Shop Work on Equipment	N/A
02-GCXVII	Filter Cleaning	240 filters/yr
03-GCXVII	Slurry Sampling	5,840 samples/yr
04-GCXVII	Dryer Sampling	N/A
05-GCXVII	Painting	N/A
06-GCXVII	Pump Preparation for Maintenance	100 pumps/yr
07-GCXVII	Line Preparation for Maintenance	2500 feet/yr
08-GCXVII	Vessel Preparation for Maintenance	5 vessels/yr
09-GCXVII	Instrumentation Mechanical Work	150 events/yr
10-GCXVII	Screener Cleaning	500 events/yr
11-GCXVII	Testing of Emergency Cooling Tower Pump	1 hr/wk

Activity ID No.	Total Annual Emissions (tons/yr)					
	PM ₁₀	SO ₂	NO _x	CO	VOC	Other
01-GCXVII	-	-	-	-	0.08 ¹	-
02-GCXVII	-	-	-	-	< 0.001 ²	-
03-GCXVII	-	-	-	-	< 0.001 ²	-
04-GCXVII	0.01	-	-	-	-	-
05-GCXVII	-	-	-	-	2.25	-
06-GCXVII	-	-	-	-	0.003 ²	-
07-GCXVII	-	-	-	-	0.001 ²	-
08-GCXVII	-	-	-	-	0.005 ²	-
09-GCXVII	-	-	-	-	< 0.001 ²	-
10-GCXVII	-	-	-	-	0.001 ²	-
11-GCXVII	0.03	0.03	0.48	0.10	0.04	-

¹ Varsol is a solvent used in painting and parts washing in the shops.

² Vinyl Chloride emissions.

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IX. Insignificant Activities

ID No.:	Description	Tank Capacity	Citation
04-47501	Antifoulant Storage Tank	6,500 gals	LAC 33:III.501.B.5.A.3
04-47563	Glyconol – Storage Tank (Sorbitan Monolaurate)	6,500 gals	LAC 33:III.501.B.5.A.3
04-47571	Diesel Tank	500 gals	LAC 33:III.501.B.5.A.3
04-47620	Dispersant Charge Tank No. 6 (Methyl Cellulose)	6,500 gals	LAC 33:III.501.B.5.A.3
04-47621	Dispersant Charge Tank No. 7 (Methyl Cellulose)	6,500 gals	LAC 33:III.501.B.5.A.3
04-47622	Dispersant Charge Tank No. 8 (Methyl Cellulose)	6,500 gals	LAC 33:III.501.B.5.A.3
04-47623	Versene Tank	4,200 gals	LAC 33:III.501.B.5.A.3
04-47624	Dispersant Charge Tank (Methyl Cellulose)	4,200 gals	LAC 33:III.501.B.5.A.3
04-47625	Dispersant Charge Tank No. 11 (Methyl Cellulose)	6,500 gals	LAC 33:III.501.B.5.A.3
04-47626	Dispersant Charge Tank No. 12 (Methyl Cellulose)	6,500 gals	LAC 33:III.501.B.5.A.3
04-47627	Dispersant Charge Tank No. 13 (Methyl Cellulose)	6,500 gals	LAC 33:III.501.B.5.A.3
04-47628	Dispersant Charge Tank No. 14 (Methyl Cellulose)	6,500 gals	LAC 33:III.501.B.5.A.3
04-47629	Dispersant Charge Tank No. 15 (Methyl Cellulose)	6,500 gals	LAC 33:III.501.B.5.A.3
04-47630	Dispersant Charge Tank No. 16 (Methyl Cellulose)	6,500 gals	LAC 33:III.501.B.5.A.3
-	Diesel Tank	250 gals	LAC 33:III.501.B.5.A.3

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X. Applicable Louisiana Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																
		5 ¹	9	11	13	15	2103	2111	2113	2115	2121	2122	2153*	22	51*	52	56	59
GRP042	Facility		1	1				1	1					3		1	1	1
ARE 6	PVC Research Facility (1-82)												3					1
EQT 8	Slurry Dump Tanks, Trains 2,3,4 (4-73)							3					3					1
EQT 9	Blend Tank 3 (Train 2) (7-73A)								3				3					1
EQT 10	Blend Tank 4 (Train 3) (7-73B)									3			3					1
EQT 11	Blend Tank 3 SWECO (Train 2) (7-73C)										3		3					1
EQT 12	Blend Tank 4 SWECO (Train 3) (7-73D)											3					1	1
EQT 14	Development Blend Tank (7-73F)								3				3					1
EQT 15	Screen Filter Receiver No. 3 (13-73)						1						3					1
EQT 16	Secondary Screen Filter Receiver No. 2(14-73)							1										
EQT 17	Screen Filter Receiver No. 4 (15-73)								1									
EQT 18	Screen Filter Receiver No. 5 (16-73)									1								
EQT 19	Primary Screen Filter Receiver No. 2 (17-73)									1								
EQT 20	Day Tank No. 1 (25-73)									1			3					
EQT 21	Day Tank No. 2 (26-73)										1		3					
EQT 22	Day Tank No. 3 (27-73)										1		3					
EQT 23	Day Tank No. 5 (29-73)										1		3					
EQT 24	Product Silo No. 1 (31-73)											1		3				

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X. Applicable Louisiana Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter															
		5'	9	11	13	15	2103	2111	2113	2115	2122	2121	2153*	22	51*	52	56
EQT 25	Product Silo No. 2 (32-73)				1		3										
EQT 26	Product Silo No. 3 (33-73)					1		3									
EQT 27	Product Silo No. 4 (34-73)					1		3									
EQT 28	Product Silo No. 5 (35-73)					1		3									
EQT 29	Product Silo No. 6 (36-73)					1		3									
EQT 30	Product Silo No. 7 (37-73)					1		3									
EQT 31	Product Silo No. 8 (38-73)				1		3										
EQT 32	Flash Dryer No. 1 (1-78)				1								3			1	
EQT 33	Fluid Bed Dryer No. 1 (2-78)					1							3			1	
EQT 34	Fluid Bed Dryer No. 5 – Back Mix (3-78)					1							3			1	
EQT 35	Fluid Bed Dryer No. 5 – Plug Flow (4-78)						1						3			1	
EQT 36	Fluid Bed Dryer No. 4 – Back Mix (5-78)						1						3			1	
EQT 37	Fluid Bed Dryer No. 4 – Plug Flow (6-78)							1					3			1	
EQT 38	Fluid Bed Dryer No. 3 – Back Mix (7-78)							1					3			1	
EQT 39	Fluid Bed Dryer No. 3 – Plug Flow (8-78)								1				3			1	
EQT 40	Day Tank No. 7 (7-80)								1				3				
EQT 41	Day Tank No. 8 (8-80)								1				3				
EQT 42	Development Silo No. 10 (17-80)								1				3				

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X. Applicable Louisiana Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																
		5 ¹	9	11	13	15	203	2111	2113	2115	2121	2122	2153*	22	51*	52	56	59
EQT 43	"C" Grade Silo No. 9 (18-80)			1		3												
EQT 44	Development Flash Dryer (22-80)				1									3				1
EQT 45	Dryer 2 Centrifuges (23-80A)													3				1
EQT 46	Fluid Bed Dryer No. 2 (23-80B)					1								3				1
EQT 47	Blend Tanks 1 & 2 (Train 1) (23-80C)						3							3				1
EQT 48	Blend Tank 5 (Train 4) (23-80D)							3						3				1
EQT 49	Blend Tank 2 SWECO (Train 1) (23-80E)							3						3				1
EQT 50	Blend Tank 5 SWECO (Train 4) (23-80F)							3						3				1
EQT 51	Flash Dryer No. 2 (24-80)					1								3				1
EQT 52	Development Fluid Bed Dryer (25-80)					1								3				1
EQT 53	Day Tank No. 9 (2-82)					1								3				1
EQT 54	Day Tank No. 10 (3-82)					1								3				1
EQT 56	Recovery Slurry Blend Tank (1-86B)													3				1
EQT 57	Solids Separation Feed Tank (1-86C)													3				1
EQT 60	Dryer No. 6 (1-89)							1						3				1
EQT 61	Day Tank No. 6 (2-89)								1					3				
EQT 62	Screen Filter Receiver No. 6 (3-89)									1								
EQT 63	Dryer No. 7 (4-89)										1			3				1

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PVC PLANT

AGENCY INTEREST NO.: 2455

GEORGIA GULF CHEMICALS AND VINYL'S, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINES, IBERVILLE PARISH, LOUISIANA

X. Applicable Louisiana Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																
		5'	9	11	13	15	2103	2111	2113	2115	2122	2121	2153*	22	51*	52	56	59
EQT 64	Day Tank No. 4 (5-89)				1		3											
EQT 65	Product Silo No. 11 (7-89)				1		3											
EQT 66	Product Silo No. 12 (8-89)				1		3											
EQT 67	Dryer No. 8 (2-94)				1								3				1	
EQT 68	Dryer 4 Centrifuges (5-94)												3				1	
EQT 69	Dryer 1 Centrifuges (8-94)												3				1	
EQT 70	Dryer 3 Centrifuges (10-94)												3				1	
EQT 71	Dryer 5 Centrifuges (11-94)												3				1	
EQT 72	Dryer 6 Centrifuges (12-94)												3				1	
EQT 73	Dryer 7 Centrifuges (13-94)												3				1	
EQT 74	Dryer 8 Centrifuges (14-94)												3				1	
EQT 75	Slurry Dump Tank No. 1 (15-94)												3				1	
EQT 76	Product Silo No. 13 (23-94)												3				1	
EQT 77	Diesel Tank (2-96)												3				1	
EQT178	PVC Cooling Tower No. 1 (11-99)												1					
EQT179	PVC Lamella System (12-99)												1					
EQT180	Dryer 9 Centrifuges (2-05)												3				1	
EQT181	Blend Tank No. 6 (3-05) ²																1	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PVC PLANT
AGENCY INTEREST NO.: 2455
GEORGIA GULF CHEMICALS AND VINYLIS, L.L.C.
26100 HWY 405 SOUTH, PLAQUEMINES, IBERVILLE PARISH, LOUISIANA

X. Applicable Louisiana Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																
		5 ¹	9	11	13	15	2103	2111	2113	2115	2122	2121	2153*	22	51*	52	56	59
EQT181	Dryer No. 9 (3-05) ²																	
EQT184	PVC Cooling Tower No. 2 (6-05)																	1
EQT185	Dryer Screener Ovens Recovery System (7-05)																	
EQT186	Air Lock Vent Receiver (8-05)																	
FUG 5	Reactor Opening Losses (19-80)																	1
FUG 6	Plant Fugitive Emissions (1-86A)																	
FUG10	Fugitives from Dumpster Storage (9-05)																	1
RLP8	North Combined Stack (7-73)																	
RLP9	South Combined Stack (23-80)																	

The regulations indicated above are State Only regulations.

¹ LAC 33:III.501.C.6 citations are federally enforceable except when it specifically states that the regulation is State Only.

² Blend Tank No. 6 and Dryer No. 9 are routed to a common stack and therefore have the same EIQ ID. However, they are separated for the purposes of the regulatory applicability analysis since the regulations applicable to the blend tank and dryer differ.

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
 - Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PVC PLANT

AGENCY INTEREST NO.: 2455

GEORGIA GULF CHEMICALS AND VINYLIS, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINES, IBERVILLE PARISH, LOUISIANA

XI. Applicable Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR					
		K	Ka	Kb	Db	VV	KKK	A	F	M	V	FF	A	H	J	V	HHH	S2	64	68					
GRP042	Facility							1	1			2	1	1	1						2	1			
ARE 6	PVC Research Facility (1-82)							1													1				
EQT 8	Slurry Dump Tanks, Trains 2,3,4 (4-73)							1													1				
EQT 9	Blend Tank 3 (Train 2) (7-73A)							3					1								1				
EQT 10	Blend Tank 4 (Train 3) (7-73B)							3					1								1				
EQT 11	Blend Tank 3 SWECO (Train 2) (7-73C)							3					1								1				
EQT 12	Blend Tank 4 SWECO (Train 3) (7-73D)							3					1								1				
EQT 14	Development Blend Tank (7-73F)							3					1								1				
EQT 15	Screen Filter Receiver No. 3 (13-73)												1								1				
EQT 16	Secondary Screen Filter Receiver No. 2(14-73)												1								1				
EQT 17	Screen Filter Receiver No. 4 (15-73)												1								1				
EQT 18	Screen Filter Receiver No. 5 (16-73)												1								1				
EQT 19	Primary Screen Filter Receiver No. 2 (17-73)												1								1				
EQT 20	Day Tank No. 1 (25-73)												3								1				
EQT 21	Day Tank No. 2 (26-73)												3								1				
EQT 22	Day Tank No. 3 (27-73)												3								1				
EQT 23	Day Tank No. 5 (29-73)												3								1				
EQT 24	Product Silo No. 1 (31-73)												3								1				

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PVC PLANT

AGENCY INTEREST NO.: 2455
GEORGIA GULF CHEMICALS AND VINYLIS, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINE, IBERVILLE PARISH, LOUISIANA

XI. Applicable Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR						
		K	Ka	Kb	Db	VV	KKK	A	F	M	V	FF	A	H	J	V	HHH	52	64	68						
EQT 25	Product Silo No. 2 (32-73)			3							1							1								
EQT 26	Product Silo No. 3 (33-73)			3							1							1								
EQT 27	Product Silo No. 4 (34-73)			3							1							1								
EQT 28	Product Silo No. 5 (35-73)			3							1							1								
EQT 29	Product Silo No. 6 (36-73)			3							1							1								
EQT 30	Product Silo No. 7 (37-73)			3							1							1								
EQT 31	Product Silo No. 8 (38-73)			3							1							1								
EQT 32	Flash Dryer No. 1 (1-78)										1							1								
EQT 33	Fluid Bed Dryer No. 1 (2-78)										1							1								
EQT 34	Fluid Bed Dryer No. 5 – Back Mix (3-78)										1							1								
EQT 35	Fluid Bed Dryer No. 5 – Plug Flow (4-78)										1							1								
EQT 36	Fluid Bed Dryer No. 4 – Back Mix (5-78)										1							1								
EQT 37	Fluid Bed Dryer No. 4 – Plug Flow (6-78)										1							1								
EQT 38	Fluid Bed Dryer No. 3 – Back Mix (7-78)										1							1								
EQT 39	Fluid Bed Dryer No. 3 – Plug Flow (8-78)										1							1								
EQT 40	Day Tank No. 7 (7-80)										3							1								
EQT 41	Day Tank No. 8 (8-80)										3							1								
EQT 42	Development Silo No. 10 (17-80)										3							1								

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PVC PLANT

AGENCY INTEREST NO.: 2455

GEORGIA GULF CHEMICALS AND VINYLIS, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINES, IBERVILLE PARISH, LOUISIANA

XI. Applicable Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR						
		K	Ka	Kb	Db	VV	KKK	A	F	M	V	FF	A	H	J	V	HHH	S	D	4	6	8				
EQT 43	"C" Grade Silo No. 9 (18-80)																									
EQT 44	Development Flash Dryer (22-80)																									
EQT 45	Dryer 2 Centrifuges (23-80A)																									
EQT 46	Fluid Bed Dryer No. 2 (23-80B)																									
EQT 47	Blend Tanks 1 & 2 (Train 1) (23-80C)																									
EQT 48	Blend Tank 5 (Train 4) (23-80D)																									
EQT 49	Blend Tank 2 SWECO (Train 1) (23-80E)																									
EQT 50	Blend Tank 5 SWECO (Train 4) (23-80F)																									
EQT 51	Flash Dryer No. 2 (24-80)																									
EQT 52	Development Fluid Bed Dryer (25-80)																									
EQT 53	Day Tank No. 9 (2-82)																									
EQT 54	Day Tank No. 10 (3-82)																									
EQT 56	Recovery Slurry Blend Tank (1-86B)																									
EQT 57	Solids Separation Feed Tank (1-86C)																									
EQT 60	Dryer No. 6 (1-89)																									
EQT 61	Day Tank No. 6 (2-89)																									
EQT 62	Screen Filter Receiver No. 6 (3-89)																									
EQT 63	Dryer No. 7 (4-89)																									

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PVC PLANT

AGENCY INTEREST NO.: 2455

GEORGIA GULF CHEMICALS AND VINYL'S, L.L.C.
26100 HWY 405 SOUTH, PLAQUEMINES, IBERVILLE PARISH, LOUISIANA

XI. Applicable Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR							
		K	Ka	Kb	Db	VV	KKK	A	F	M	V	FF	A	H	J	V	HHH	52	64	68							
EQT 64	Day Tank No. 4 (5-89)		3							1								1									
EQT 65	Product Silo No. 11 (7-89)			3									1						1								
EQT 66	Product Silo No. 12 (8-89)			3								1							1								
EQT 67	Dryer No. 8 (2-94)											1							1								
EQT 68	Dryer 4 Centrifuges (5-94)										1								1								
EQT 69	Dryer 1 Centrifuges (8-94)										1								1								
EQT 70	Dryer 3 Centrifuges (10-94)										1								1								
EQT 71	Dryer 5 Centrifuges (11-94)										1								1								
EQT 72	Dryer 6 Centrifuges (12-94)											1								1							
EQT 73	Dryer 7 Centrifuges (13-94)											1								1							
EQT 74	Dryer 8 Centrifuges (14-94)											1								1							
EQT 75	Slurry Dump Tank No. 1 (15-94)										3								1								
EQT 76	Product Silo No. 13 (23-94)										3								1								
EQT 77	Diesel Tank (2-96)		3	3	3																						
EQT178	PVC Cooling Tower No. 1 (11-99)																										
EQT179	PVC Lamella System (12-99)																										
EQT180	Dryer 9 Centrifuges (2-05)																		1								
EQT181	Blend Tank No. 6 (3-05) ¹																		1								

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GEORGIA GULF CHEMICALS AND VINYL'S, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINE, IBERVILLE PARISH, LOUISIANA

XI. Applicable Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR					
		K	Ka	Kb	Db	VV	KKK	A	F	M	V	FF	A	H	J	V	HHH	52	64	68					
EQT181	Dryer No. 9 (3-05) ¹																								
EQT184	PVC Cooling Tower No. 2 (6-05)																								
EQT185	Dryer Screener Ovens Recovery System (7-05)																								
EQT186	Air Lock Vent Receiver (8-05)																								
FUG 5	Reactor Opening Losses (19-80)																								
FUG 6	Plant Fugitive Emissions (1-86A)																								
FUG10	Fugitives from Dumpster Storage (9-05)																								
RLP8	North Combined Stack (7-73)																								
RLP9	South Combined Stack (23-80)																								

¹ Blend Tank No. 6 and Dryer No. 9 are routed to a common stack and therefore have the same EIQ ID. However, they are separated for the purposes of the regulatory applicability analysis since the regulations applicable to the blend tank and dryer differ.

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
 - Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PVC PLANT

AGENCY INTEREST NO.: 2455

GEORGIA GULF CHEMICALS AND VINYLS, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINE, IBERVILLE PARISH, LOUISIANA

XII. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
GRP042	PVC Plant	LAC 33:III.2153 Control of Emissions of Organic Compounds – Limiting VOC Emissions from Industrial Wastewater. 40 CFR 61.342(b) and (c), Subpart FF National Emission Standards for Benzene Waste Operations	DOES NOT APPLY. Point of generation of wastewater is after VCM recovery; concentration after recovery is < 1000 ppmv. [LAC 33:III.2153.B] EXEMPT. The Plaquemine facility has less than 1 Mg/yr benzene waste and is exempt from the standards of 40 CFR 61.342(b) and (c) per 40 CFR 61.342(a). A report summarizing the status was submitted 4/7/93 in accordance with 40 CFR 61.357(a) and (b). [40 CFR 61.342(a)] EXEMPT. CAM for existing equipment was addressed as part of the Title V permit renewal issued on February 16, 2005; the facility was found to be exempt from CAM requirements. None of the new or modified emission units due to the PVC modernization project are large PSEUs; therefore, per 40 CFR 64.5(b), CAM is not required to be addressed until renewal of the Title V permit.
GRP023	Slurry Dump Tank Group 4-73 Slurry Dump Tanks, Trains 2,3, 15-94 Slurry Dump Tank No. 1 9-05 Fugitives from Dumpster Storage	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels	DOES NOT APPLY. Tanks do not store volatile organic liquids (VOL). [40 CFR 60.110b(a)]
EQT8 EQT75 FUG10			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PVC PLANT
 AGENCY INTEREST NO.: 2455
 GEORGIA GULF CHEMICALS AND VINYL'S, L.L.C.
 26100 HWY 405 SOUTH, PLAQUEMINE, IBERVILLE PARISH, LOUISIANA

XII. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) GRP023 EQT8 EQT75 FUG10	Slurry Dump Tank Group 4-73 Slurry Dump Tanks, Trains 2,3,4 15-94 Slurry Dump Tank No. 1 9-05 Fugitives from Dumpster Storage	LAC 33:III.2103 Storage of Volatile Organic Compounds	DOES NOT APPLY. Tanks store liquids with maximum true vapor pressures of less than 1.5 psia. [LAC 33:III.2103]
GRP016	Blend Tank Group 7-73A Blend Tank No. 3 (Train 2) 7-73B Blend Tank No. 4 (Train 3) 7-73C Blend Tank No. 3 SWEKO (Train 2) 7-73D Blend Tank No. 4 SWEKO (Train 3) 7-73F Development Blend Tank 23-80C Blend Tanks No. 1 & 2 (Train 1) 23-80D Blend Tank No. 5 (Train 4) 23-80E Blend Tank No. 2 SWEKO (Train 1) 23-80F Blend Tank No. 5 SWEKO (Train 4) 3-05 Blend Tank No. 6	LAC 33:III.2115 Control of Emissions of Organic Compounds - Waste Gas Disposal	DOES NOT APPLY. This Section does not apply to waste gas streams that are required by another federal or state regulation to implement controls that reduce VOC to a more stringent standard than would be required by this Section. [LAC 33:III.2115] This source is subject to Vinyl Chloride NESHAP (40 CFR 61 Subpart F) which requires more stringent control of VOCs.
EQT9 EQT10 EQT11 EQT12 EQT13 EQT14 EQT47 EQT48 EQT49 EQT50 EQT181		40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels	DOES NOT APPLY. Tanks are process vessels. This Subpart does not apply to process vessels; process vessels are not considered storage vessels per 40 CFR 60.111b. [40 CFR 60.1110b(a)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PVC PLANT

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GEORGIA GULF CHEMICALS AND VINYL'S, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINES, IBERVILLE PARISH, LOUISIANA

XII. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued)			
GRP16	Blend Tank Group	LAC 33:III.2103 Storage of Volatile Organic Compounds	DOES NOT APPLY. Tanks store liquids with maximum true vapor pressures of less than 1.5 psia. [LAC 33:III.2103]
EQT9	7-73A Blend Tank No. 3 (Train 2)	LAC 33:III.2115	DOES NOT APPLY.
EQT10	7-73B Blend Tank No. 4 (Train 3)	Control of Emissions of Organic Compounds – Waste Gas Disposal	This Section does not apply to waste gas streams that are required by another federal or state regulation to implement controls that reduce VOC to a more stringent standard than would be required by this Section. [LAC 33:III.2115]
EQT11	7-73C Blend Tank No. 3 SWEKO (Train 2)		
EQT12	7-73D Blend Tank No. 4 SWEKO (Train 3)		
EQT14	7-73F Development Blend Tank		
EQT47	23-80C Blend Tanks No. 1 & 2 (Train 1)		
EQT48	23-80D Blend Tank No. 5 (Train 4)		
EQT49	23-80E Blend Tank No. 2 SWEKO (Train 1)		
EQT50	23-80F Blend Tank No. 5 SWEKO (Train 4)		
EQT181	3-05 Blend Tank No. 6		
EQT45	23-80A Dryer No. 2 Centrifuges	LAC 33:III.2115 Control of Emissions of Organic Compounds – Waste Gas Disposal	DOES NOT APPLY. This Section does not apply to waste gas streams that are required by another federal or state regulation to implement controls that reduce VOC to a more stringent standard than would be required by this Section. [LAC 33:III.2115]
			This source is subject to Vinyl Chloride NESHAP (40 CFR 61 Subpart F) which requires more stringent control of VOCs.
			This source is subject to Vinyl Chloride NESHAP (40 CFR 61 Subpart F) which requires more stringent control of VOCs.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PVC PLANT

AGENCY INTEREST NO.: 2455

GEORGIA GULF CHEMICALS AND VINYL'S, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINE, IBERVILLE PARISH, LOUISIANA

XII. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
EQT46	23-80B Fluid Bed Dryer No. 2	LAC 33.III.2115 Control of Emissions of Organic Compounds – Waste Gas Disposal	DOES NOT APPLY. This Section does not apply to waste gas streams that are required by another federal or state regulation to implement controls that reduce VOC to a more stringent standard than would be required by this Section. [LAC 33.III.2115]
GRP18	Day Tank Group EQT20 25-73 Day Tank No. 1 EQT21 26-73 Day Tank No. 2 EQT22 27-73 Day Tank No. 3 EQT23 29-73 Day Tank No. 5 EQT40 7-80 Day Tank No. 7 EQT41 8-80 Day Tank No. 8 EQT53 2-82 Day Tank No. 9 EQT54 3-82 Day Tank No. 10 EQT61 2-89 Day Tank No. 6 EQT64 5-89 Day Tank No. 4	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels	This source is subject to Vinyl Chloride NESHAP (40 CFR 61 Subpart F) which requires more stringent control of VOCs. DOES NOT APPLY. When Day Tanks are in PVC service, they do not store volatile organic liquids (VOLs). Day Tanks 9 and 10 may also store centrate water. The true vapor pressure of centrate water is less than 3.5 kPa; therefore, this requirement is not applicable under any of the above operating conditions. [40 CFR 60.110(b)]
		LAC 33.III.2103 Storage of Volatile Organic Compounds	DOES NOT APPLY. When Day Tanks are in PVC service, they do not store volatile organic liquids (VOLs). Day Tanks 9 and 10 may also store centrate water. The true vapor pressure of centrate water is less than 1.5 psia; therefore, this requirement is not applicable under any of the above operating conditions. [LAC 33.III.2103]

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XII. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
GRP19	Product Silo Group	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels	DOES NOT APPLY. Tanks do not store volatile organic liquids (VOLs). [40 CFR 60.110b(a)]
EQT24	31-73 Product Silo No. 1		
EQT25	32-73 Product Silo No. 2		
EQT26	33-73 Product Silo No. 3		
EQT27	34-73 Product Silo No. 4		
EQT28	35-73 Product Silo No. 5		
EQT29	36-73 Product Silo No. 6		
EQT30	37-73 Product Silo No. 7		
EQT31	38-73 Product Silo No. 8		
EQT42	17-80 Development Silo No. 10	LAC 33:III.2103 Storage of Volatile Organic Compounds	DOES NOT APPLY. Tanks do not store volatile organic compounds (VOCs). [LAC 33:III.2103]
EQT43	18-80 "C" Grade Silo No. 9		
EQT65	7-89 Product Silo No. 11		
EQT66	8-89 Product Silo No. 12		
EQT76	23-94 Product Silo No. 13		
EQT185	7-05 Dryer Screener Ovens Recovery System		
EQT186	8-05 Air Lock Vent Receiver		

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PVC PLANT

AGENCY INTEREST NO.: 2455

GEORGIA GULF CHEMICALS AND VINYL'S, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINES, IBERVILLE PARISH, LOUISIANA

XII. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
EQT32	1-78 Flash Dryer No. 1 2-78 Fluid Bed Dryer No. 1	LAC 33:III.2115 Control of Emissions of Organic Compounds – Waste Gas Disposal	DOES NOT APPLY. This Section does not apply to waste gas streams that are required by another federal or state regulation to implement controls that reduce VOC to a more stringent standard than would be required by this Section. [LAC 33:III.2115]
EQT33	3-78 Fluid Bed Dryer No. 5 – Back Mix		
EQT34	4-78 Fluid Bed Dryer No. 5 – Plug Flow		
EQT35	5-78 Fluid Bed Dryer No. 4 – Back Mix		
EQT36	6-78 Fluid Bed Dryer No. 4 – Plug Flow		
EQT37	7-78 Fluid Bed Dryer No. 3 – Back Mix		
EQT38	8-78 Fluid Bed Dryer No. 3 – Plug Flow		
EQT39	22-80 Development Flash Dryer		This source is subject to Vinyl Chloride NESHAP (40 CFR 61 Subpart F) which requires more stringent control of VOCs.
EQT44	24-80 Flash Dryer No. 2		
EQT51	25-80 Development Fluid Bed Dryer		
EQT52	1-89 Dryer No. 6		
EQT60	4-89 Dryer No. 7		
EQT63	2-94 Dryer No. 8		
EQT67	3-05 Dryer No. 9		
EQT181		LAC 33:III.1311.C Emission Standards for Particulate Matter: Emission Limits	EXEMPT. Emissions already less than that allowed by the process weight rate limitation (LAC 33:III.1321, Table 3) shall be exempt from the opacity limitation of LAC 33:III.1311.C. [LAC 33:III.1311.E]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PVC PLANT

AGENCY INTEREST NO.: 2455

GEORGIA GULF CHEMICALS AND VINYL, L.L.C.
26100 HWY 405 SOUTH, PLAQUEMINE, IBERVILLE PARISH, LOUISIANA

XII. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
ARE6	1-82 PVC Research Facility	LAC 33:III.2115 Control of Emissions of Organic Compounds – Waste Gas Disposal	DOES NOT APPLY. This Section does not apply to waste gas streams that are required by another federal or state regulation to implement controls that reduce VOC to a more stringent standard than would be required by this Section. [LAC 33:III.2115]
FUG6	1-86A PVC Plant Fugitive Emissions	40 CFR 60 Subpart VV Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry (SOCMI) LAC 33:III.2121 Control of Emission of Organic Compounds – Fugitive Emission Control	This source is subject to Vinyl Chloride NESHAP (40 CFR 61 Subpart F) which requires more stringent control of VOCs. DOES NOT APPLY. The PVC plant is not a SOCMI Facility. [40 CFR 60.480(a)(1)] DOES NOT APPLY. Facilities subject to LAC 33:III.2122 are not subject to the regulations of this Section per LAC 33:III.2122.A.5. [LAC 33:III.2122.A.5]
EQT56 EQT57	1-86B Recovery Slurry Blend Tank 1-86C Solids Separation Feed Tank	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels LAC 33:III.2103 Storage of Volatile Organic Compounds	DOES NOT APPLY. Tanks do not store volatile organic liquids (VOLs). [40 CFR 60.110b(a)] DOES NOT APPLY. Tanks do not store volatile organic compounds (VOCs). [LAC 33:III.2103]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PVC PLANT

AGENCY INTEREST NO.: 2455

GEORGIA GULF CHEMICALS AND VINYL, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINE, IBERVILLE PARISH, LOUISIANA

XII. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
GRP25	Centrifuge Group	LAC 33:III.2115 Control of Emissions of Organic Compounds – Waste Gas Disposal	DOES NOT APPLY. This Section does not apply to waste gas streams that are required by another federal or state regulation to implement controls that reduce VOC to a more stringent standard than would be required by this Section. [LAC 33:III.2115]
EQT68	5-94 Dryer 4 Centrifuges		
EQT69	8-94 Dryer 1 Centrifuges		
EQT70	10-94 Dryer 3 Centrifuges		
EQT71	11-94 Dryer 5 Centrifuges		
EQT72	12-94 Dryer 6 Centrifuges		
EQT73	13-94 Dryer 7 Centrifuges		
EQT74	14-94 Dryer 8 Centrifuges		
EQT180	2-05 Dryer 9 Centrifuges		
EQT77	2-96 Diesel Tank	LAC 33:III.2103 Storage of Volatile Organic compounds	DOES NOT APPLY. The maximum true vapor pressure of diesel is < 1.5 psia. [LAC 33:III.2103]
		40 CFR 60 Subpart K Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978	DOES NOT APPLY. Tank capacity is less than 40,000 gallons. [40 CFR 60.110(a)] Tank capacity is 10,000 gallons. Tank was constructed in 1996.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PVC PLANT

AGENCY INTEREST NO.: 2455

GEORGIA GULF CHEMICALS AND VINYLS, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINE, IBERVILLE PARISH, LOUISIANA

XII. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT77	2-96 Diesel Tank	40 CFR 60 Subpart Ka Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984.	DOES NOT APPLY. Tank capacity is less than 40,000 gallons. [40 CFR 60.110a(a)]
		40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	DOES NOT APPLY. Tank capacity is 10,000 gallons. Tank was constructed in 1996. [40 CFR 60.110b(a)]

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit.

PART 70 SPECIFIC CONDITIONS

PVC PLANT

AGENCY INTEREST NO.: 2455

GEORGIA GULF CHEMICALS AND VINYLS, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINE, IBERVILLE PARISH, LOUISIANA

1. Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined, as indicated in the following table. Noncompliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the fugitive emissions program being streamlined.
 - a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (40 CFR 63 Subpart H – HON) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.
 - b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters.
 - c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on August 15 and February 15, to cover the periods January 1 through June 30 and July 1 through December 31, respectively. The semiannual reports shall include any monitoring performed within the reporting period.

Unit or Plant Site	Programs Being Streamlined	Stream Applicability	Overall Most Stringent Program
1-86A PVC Plant Fugitive Emissions	40 CFR 63, Subpart H – HON*	5% OHAP	40 CFR 63, Subpart H – HON
	40 CFR 63 Subpart UU		
	LAC 33.III.Chapter 51	5% VOTAP	
	LAC 33.III.2122	10% VOC	
	40 CFR 63, Subpart J	10% VCM	
	40 CFR 61, Subpart F	10% VCM	
	40 CFR 61, Subpart V	10% VHAP	

* 40 CFR 63, Subpart H is not applicable to the PVC Plant. However, Georgia Gulf proposes to consolidate under 40 CFR 63, Subpart H to promote consistency of fugitive monitoring requirements across the facility.

STATE-ONLY SPECIFIC CONDITIONS

PVC PLANT

AGENCY INTEREST NO.: 2455

GEORGIA GULF CHEMICALS AND VINYLS, L.L.C.

26100 HWY 405 SOUTH, PLAQUEMINE, IBERVILLE PARISH, LOUISIANA

1. The number of each type of component required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided:
 - a. Changes in components involve routine maintenance, or are undertaken to address safety concerns, or involve small piping revisions with no associated emission increases except from the fugitive components themselves;
 - b. The changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than piping components;
 - c. Actual emissions following the changes will not exceed the emission limits contained in this permit; and
 - d. The components are promptly incorporated into any applicable leak detection and repair program.

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- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

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- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required

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information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]

- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;

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2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December

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4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

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- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 7, 2005, along with supplemental information dated December 14, 2005, December 27, 2005, and January 19, 2006.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

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- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
 - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:

1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December

D. Each report submitted in accordance with this condition shall contain the following information:

1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

**LOUISIANA AIR EMISSION PERMIT
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- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]
- These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.
- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 2455 Georgia Gulf Chemicals & Vinyls LLC
 Activity Number: PER20050018
 Permit Number: 881-V2
 Air - Title V Regular Permit Minor Mod

Also Known As:	Name	User Group	Start Date
LAQ4827	ADV#	Asbestos	01-15-2003
1280-00002	Georgia Gulf Chemicals & Vinyls LLC	CDS Number	08-05-2002
1280-0002	Georgia Gulf Chemicals & Vinyls LLC	Emission Inventory	03-03-2004
58-1563799	Federal Tax ID	Federal Tax ID	11-21-1999
LAD057117434	Georgia Gulf Chemicals & Vinyls LLC	Hazardous Waste Notification	08-18-1980
PMT/CA	GPR/A Baselines	Hazardous Waste Permitting	10-01-1997
00367	Georgia Pacific Corp	Inactive & Abandoned Sites	01-01-1980
LAD057117434	Georgia Gulf Corp	Inactive & Abandoned Sites	01-01-1980
LA0007129	WPC File Number	LPDES Permit #	06-25-2003
LA0007219	LPDES Permit #	LPDES Permit #	08-08-2004
WP0616	WPC State Permit Number	LWDPS Permit #	06-25-2003
LA-2774-01	Radioactive Material License	Radiation License Number	02-20-2000
GD-047-0244	Site ID #	Solid Waste Facility No.	04-30-2001
17254	Georgia Gulf	TEMPO Merge	08-20-2001
19608	Georgia Gulf Corp	TEMPO Merge	08-20-2001
38832	Georgia Gulf Corp	TEMPO Merge	08-26-2001
49210	Georgia Gulf Corp	TEMPO Merge	08-20-2001
76167	Georgia Gulf	TEMPO Merge	12-30-2001
1280-0002	Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
70765GRGGLHIGHW	TRI #	Toxic Release Inventory	07-13-2004
61-000736	UST Facility ID (from UST legacy data)	Underground Storage Tanks	10-12-2002
Physical Location:	26100 Hwy 405 S Plaquemine, LA 70764	Main FAX: 2256870294 Main Phone: 9852982500	
Mailing Address:	PO Box 629 Plaquemine, LA 707650629		
Location of Front Gate:	30° 16' 1" 80 hundredths latitude, 91° 11' 3" 33 hundredths longitude, Coordinate Method: GPS Code (Pseudo Range) Differential, Coordinate Datum: NAD83		
Related People:	Name	Mailing Address	Phone (Type)
Casey Crow	Casey Crow	PO Box 629 Plaquemine, LA 707650629	2256852745 (WP)
Casey Crow	Casey Crow	PO Box 629 Plaquemine, LA 707650629	2256870294 (WF)
Dennis Fec	Dennis Fec	PO Box 629 Plaquemine, LA 707650629	Radiation Safety Officer for Solid Waste Billing Party for Responsible Official for Water Billing Party for
Dennis Fec	Dennis Fec	PO Box 629 Plaquemine, LA 707650629	

General Information

AI ID: 2455 Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

Related People:	Name	Mailing Address	Phone (Type)	Relationship
Dennis Fec		PO Box 629 Plaquemine, LA 707650629	2256852632 (WP)	Air Permit Contact For
Hillary Garner		PO Box 629 Plaquemine, LA 707650629	2256852632 (WP)	Hazardous Waste Permit Contact For
Hillary Garner		PO Box 629 Plaquemine, LA 707650629	2256852632 (WP)	Asbestos Contact for
Steve Varnado		PO Box 629 Plaquemine, LA 707650629	2256852632 (WP)	Accident Prevention Contact for
Steve Varnado		PO Box 629 Plaquemine, LA 707650629	2256852632 (WP)	Accident Prevention Billing Party for

Related Organizations:	Name	Address	Phone (Type)	Relationship
Baton Rouge Oil Co (Morelia Co)		10319 Old Hammond Hwy Ste B1 Baton Rouge, LA 70816	2259281225 (WP)	UST Billing Party for
Georgia Gulf Chemicals & Vinyls LLC		PO Box 629 Plaquemine, LA 707650629		Air Billing Party for
Georgia Gulf Chemicals & Vinyls LLC		PO Box 629 Plaquemine, LA 707650629		Haz. Waste Billing Party for
Georgia Gulf Chemicals & Vinyls LLC		PO Box 629 Plaquemine, LA 707650629		Operates
Georgia Gulf Chemicals & Vinyls LLC		PO Box 629 Plaquemine, LA 707650629		Owns
Georgia Gulf Chemicals & Vinyls LLC		PO Box 629 Plaquemine, LA 707650629		Radiation License Billing Party for

SIC Codes:
2821, Plastics materials and resins

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC
Activity Number: PER20050018
Permit Number: 881-V2

Air • Title V Regular Permit Minor Mod

Subject Item Inventory

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
ARE006	1-82 PVC Research Facility			60000 lb/yr		8760 hr/yr (All Year)
EQT008	4-73 Slurry Dump tanks, Trains 2, 3, 4	40000 gallons				8760 hr/yr (All Year)
EQT009	7-73A Blend Tank 3 (Train 2)	84000 gallons				8760 hr/yr (All Year)
EQT010	7-73B Blend Tank 4 (Train 3)	84000 gallons				8760 hr/yr (All Year)
EQT011	7-73C Blend Tank 3 Sweco (Train 2)		400 gallons/min			8760 hr/yr (All Year)
EQT012	7-73D Blend Tank 4 Sweco (Train 3)		400 gallons/min			8760 hr/yr (All Year)
EQT014	7-73F Development Blend Tank	22400 gallons				8760 hr/yr (All Year)
EQT015	13-73 Screen Filter Receiver No. 3		920 SCFM			8760 hr/yr (All Year)
EQT016	14-73 Secondary Screen Filter Receiver No. 2		600 SCFM			8760 hr/yr (All Year)
EQT017	15-73 Screen Filter Receiver No. 4		920 SCFM			8760 hr/yr (All Year)
EQT018	16-73 Screen Filter Receiver No. 5		920 SCFM			8760 hr/yr (All Year)
EQT019	17-73 Primary Screen Filter Receiver No. 2		1140 SCFM			8760 hr/yr (All Year)
EQT020	25-73 Day Tank No. 1		600 SCFM			8760 hr/yr (All Year)
EQT021	26-73 Day Tank No. 2		600 SCFM			8760 hr/yr (All Year)
EQT022	27-73 Day Tank No. 3		1600 SCFM			8760 hr/yr (All Year)
EQT023	29-73 Day Tank No. 5		1600 SCFM			8760 hr/yr (All Year)
EQT024	31-73 Product Silo No. 1		1600 SCFM			8760 hr/yr (All Year)
EQT025	32-73 Product Silo No. 2		5600 SCFM			8760 hr/yr (All Year)
EQT026	33-73 Product Silo No. 3		5600 SCFM			8760 hr/yr (All Year)
EQT027	34-73 Product Silo No. 4		5600 SCFM			8760 hr/yr (All Year)
EQT028	35-73 Product Silo No. 5		5600 SCFM			8760 hr/yr (All Year)
EQT029	36-73 Product Silo No. 6		5600 SCFM			8760 hr/yr (All Year)
EQT030	37-73 Product Silo No. 7		5600 SCFM			8760 hr/yr (All Year)
EQT031	38-73 Product Silo No. 8		5600 SCFM			8760 hr/yr (All Year)
EQT032	1-78 Flash Dryer No. 1		25270 lb/hr	83220 tons/yr		8760 hr/yr (All Year)
EQT033	2-78 Fluid Bed Dyer No. 1		25270 lb/hr	83220 tons/yr		8760 hr/yr (All Year)
EQT034	3-78 Fluid Bed Dyer No. 5 - Back Mix		34580 lb/hr	113880 tons/yr		8760 hr/yr (All Year)
EQT035	4-78 Fluid Bed Dyer No. 5 - Plug Flow		34580 lb/hr	113880 tons/yr		8760 hr/yr (All Year)
EQT036	5-78 Fluid Bed Dyer No. 4 - Back Mix		34580 lb/hr	113880 tons/yr		8760 hr/yr (All Year)
EQT037	6-78 Fluid Bed Dyer No. 4 - Plug Flow		34580 lb/hr	113880 tons/yr		8760 hr/yr (All Year)
EQT038	7-78 Fluid Bed Dyer No. 3 - Back Mix		34580 lb/hr	113880 tons/yr		8760 hr/yr (All Year)
EQT039	8-78 Fluid Bed Dyer No. 3 - Plug Flow		34580 lb/hr	113880 tons/yr		8760 hr/yr (All Year)
EQT040	7-80 Day Tank No. 7		1600 SCFM			8760 hr/yr (All Year)
EQT041	8-80 Day Tank No. 8		1600 SCFM			8760 hr/yr (All Year)
EQT042	17-80 Development Silo No. 10		400 SCFM			8760 hr/yr (All Year)
EQT043	18-80 °C Grade Silo No. 9		1500 SCFM			8760 hr/yr (All Year)
EQT044	22-80 Development Flash Dryer		4655 lb/hr	15330 tons/yr		8760 hr/yr (All Year)

INVENTORIES

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC
Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT045	23-80A Dryer No. 2 Centrifuges		23275 lb/hr	26000 lb/hr		8760 hr/yr (All Year)
EQT046	23-80B Fluid Bed Dryer No. 2		23275 lb/hr	76650 tons/yr		8760 hr/yr (All Year)
EQT047	23-80C Blend Tanks 1&2 (Train 1)	84000 gallons				8760 hr/yr (All Year)
EQT048	23-80D Blend Tank 5 (Train 4)	84000 gallons				8760 hr/yr (All Year)
EQT049	23-80E Blend Tank 2, Sweco (Train 1)		400 gallons/min			8760 hr/yr (All Year)
EQT050	23-80F Blend Tank 5, Sweco (Train 4)		400 gallons/min			8760 hr/yr (All Year)
EQT051	24-80 Flash Dyer No. 2		23275 lb/hr	76650 tons/yr		8760 hr/yr (All Year)
EQT052	25-80 Development Fluid Bed Dryer		4655 lb/hr	15330 tons/yr		8760 hr/yr (All Year)
EQT053	2-82 Day Tank No. 9		2500 SCFM	2500 SCFM		8760 hr/yr (All Year)
EQT054	3-82 Day Tank No. 10		2500 SCFM	2500 SCFM		8760 hr/yr (All Year)
EQT055	1-86B Recovery Slurry Blend Tank	84000 gallons				8760 hr/yr (All Year)
EQT057	1-86C Solids Separation Feed Tank	76750 gallons				8760 hr/yr (All Year)
EQT060	1-89 Dryer No. 6		34580 lb/hr	113880 tons/yr		8760 hr/yr (All Year)
EQT061	2-89 Day Tank No. 6		1600 SCFM	1600 SCFM		8760 hr/yr (All Year)
EQT062	3-89 Screen Filter Receiver No. 6		1200 SCFM	1200 SCFM		8760 hr/yr (All Year)
EQT063	4-89 Dryer No. 7		39900 lb/hr	131400 tons/yr		8760 hr/yr (All Year)
EQT064	5-89 Day Tank No. 4		1600 SCFM	1600 SCFM		8760 hr/yr (All Year)
EQT065	7-89 Product Silo No. 11		6600 SCFM	6600 SCFM		8760 hr/yr (All Year)
EQT066	8-89 Product Silo No. 12		6600 SCFM	6600 SCFM		8760 hr/yr (All Year)
EQT067	2-94 Dryer No. 8		39900 lb/hr	131400 tons/yr		8760 hr/yr (All Year)
EQT068	5-94 Dryer 4 Centrifuges		26000 lb/hr			8760 hr/yr (All Year)
EQT069	8-94 Dryer 1 Centrifuges		26000 lb/hr			8760 hr/yr (All Year)
EQT070	10-94 Dryer 3 Centrifuges		26000 lb/hr			8760 hr/yr (All Year)
EQT071	11-94 Dryer 5 Centrifuges		26000 lb/hr			8760 hr/yr (All Year)
EQT072	12-94 Dryer 6 Centrifuges		26000 lb/hr			8760 hr/yr (All Year)
EQT073	13-94 Dryer 7 Centrifuges		30000 lb/hr			8760 hr/yr (All Year)
EQT074	14-94 Dryer 8 Centrifuges		30000 lb/hr			8760 hr/yr (All Year)
EQT075	15-94 Slurry Dump Tank No. 1	84000 gallons	6600 SCFM	6600 SCFM	diesel	8760 hr/yr (All Year)
EQT076	23-94 Product Silo No. 13	10000 gallons	40000 gallons/min	40000 gallons/min		8760 hr/yr (All Year)
EQT077	2-96 Diesel Tank		10000 gallons	10000 gallons/min		8760 hr/yr (All Year)
EQT178	11-99 PVC Cooling Tower No. 1		40000 gallons/min	40000 gallons/min		8760 hr/yr (All Year)
EQT179	12-99 PVC Lamenti System		10000 gallons/min	10000 gallons/min		8760 hr/yr (All Year)
EQT180	2-05 Dryer 9 Centrifuges					8760 hr/yr (All Year)
EQT181	3-05 Blend Tank No. 6 / Dryer No. 9					8760 hr/yr (All Year)
EQT184	6-05 PVC Cooling Tower No. 2		21000 gallons/min	21000 gallons/min		8760 hr/yr (All Year)
EQT185	7-05 Dryer Screener Ovens Recovery System		4200 SCFM	4200 SCFM		8760 hr/yr (All Year)
EQT186	8-05 Air Lock Vent Receiver		270 SCFM	270 SCFM		8760 hr/yr (All Year)

INVENTORIES

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

Subject Item Inventory

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
FUG005	19-80 Reactor Opening Losses			1352 MM lbs/yr		8760 hr/yr (All Year)
FUG006	1-86A Plant Fugitive Emissions					8760 hr/yr (All Year)
FUG010	9-05 Fugitives from Dumpster Storage					1248 hr/yr (All Year)
RLP008	7-73 North Combined Slack					8760 hr/yr (All Year)
RLP009	23-80 South Combined Slack					8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP016	Blend Tank Group	EQT9 7-73A Blend Tank 3 (Train 2)
GRP016	Blend Tank Group	EQT10 7-73B Blend Tank 4 (Train 3)
GRP016	Blend Tank Group	EQT11 7-73C Blend Tank 3 Sweco (Train 2)
GRP016	Blend Tank Group	EQT47 23-80C Blend Tanks 1&2 (Train 1)
GRP016	Blend Tank Group	EQT48 23-80D Blend Tank 5 (Train 4)
GRP016	Blend Tank Group	EQT14 7-73F Development Blend Tank
GRP016	Blend Tank Group	EQT12 7-73D Blend Tank 4 Sweco (Train 3)
GRP016	Blend Tank Group	EQT49 23-80E Blend Tank 2 Sweco (Train 1)
GRP016	Blend Tank Group	EQT50 23-80F Blend Tank 5 Sweco (Train 4)
GRP017	Screen Filter Receiver Group	EQT15 13-73 Screen Filter Receiver No. 3
GRP017	Screen Filter Receiver Group	EQT16 14-73 Secondary Screen Filter Receiver No. 2
GRP017	Screen Filter Receiver Group	EQT19 17-73 Primary Screen Filter Receiver No. 2
GRP017	Screen Filter Receiver Group	EQT62 3-89 Screen Filter Receiver No. 6
GRP017	Screen Filter Receiver Group	EQT18 16-73 Screen Filter Receiver No. 5
GRP017	Screen Filter Receiver Group	EQT17 15-73 Screen Filter Receiver No. 4
GRP018	Day Tank Group	EQT20 25-73 Day Tank No. 1
GRP018	Day Tank Group	EQT22 27-73 Day Tank No. 3
GRP018	Day Tank Group	EQT64 5-89 Day Tank No. 4
GRP018	Day Tank Group	EQT61 2-89 Day Tank No. 6
GRP018	Day Tank Group	EQT54 3-82 Day Tank No. 10
GRP018	Day Tank Group	EQT53 2-82 Day Tank No. 9
GRP018	Day Tank Group	EQT41 8-80 Day Tank No. 8
GRP018	Day Tank Group	EQT40 7-80 Day Tank No. 7
GRP018	Day Tank Group	EQT23 29-73 Day Tank No. 5
GRP018	Day Tank Group	EQT21 26-73 Day Tank No. 2
GRP019	Product Silo Group	EQT24 31-73 Product Silo No. 1
GRP019	Product Silo Group	EQT25 32-73 Product Silo No. 2
GRP019	Product Silo Group	EQT28 35-73 Product Silo No. 5

INVENTORIES

AID: 2455 - Georgia Gulf Chemicals & Vinyls LLC
 Activity Number: PER20050018
 Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP019	Product Silo Group	EQT29 36-73 Product Silo No. 6
GRP019	Product Silo Group	EQT27 34-73 Product Silo No. 4
GRP019	Product Silo Group	EQT26 33-73 Product Silo No. 3
GRP019	Product Silo Group	EQT30 37-73 Product Silo No. 7
GRP019	Product Silo Group	EQT42 17-80 Development Silo No. 10
GRP019	Product Silo Group	EQT186 8-05 Air Lock Vent Receiver
GRP019	Product Silo Group	EQT185 7-05 Dryer Screeners Ovens Recovery System
GRP019	Product Silo Group	EQT76 23-94 Product Silo No. 13
GRP019	Product Silo Group	EQT66 8-89 Product Silo No. 12
GRP019	Product Silo Group	EQT65 7-89 Product Silo No. 11
GRP019	Product Silo Group	EQT43 18-80 "C" Grade Silo No. 9
GRP019	Product Silo Group	EQT31 38-73 Product Silo No. 8
GRP023	Slurry Dump Tank Group	EQT8 4-73 Slurry Dump tanks, Trains 2, 3, 4
GRP023	Slurry Dump Tank Group	FUG10 9-05 Fugitives from Dumpster Storage
GRP023	Slurry Dump Tank Group	EQT75 15-94 Slurry Dump Tank No. 1
GRP025	Centrifuge Group	EQT45 23-80A Dryer No. 2 Centrifuges
GRP025	Centrifuge Group	EQT70 10-94 Dryer 3 Centrifuges
GRP025	Centrifuge Group	EQT68 5-94 Dryer 4 Centrifuges
GRP025	Centrifuge Group	EQT69 8-94 Dryer 1 Centrifuges
GRP025	Centrifuge Group	EQT71 11-94 Dryer 5 Centrifuges
GRP025	Centrifuge Group	EQT73 13-94 Dryer 7 Centrifuges
GRP025	Centrifuge Group	EQT180 2-05 Dryer 9 Centrifuges
GRP025	Centrifuge Group	EQT74 14-94 Dryer 8 Centrifuges
GRP025	Centrifuge Group	EQT72 12-94 Dryer 6 Centrifuges
GRP042	PVC Plant	ARE6 1-82 PVC Research Facility
GRP042	PVC Plant	EQT8 4-73 Slurry Dump tanks, Trains 2, 3, 4
GRP042	PVC Plant	EQT15 13-73 Screen Filter Receiver No. 3
GRP042	PVC Plant	EQT17 15-73 Screen Filter Receiver No. 4
GRP042	PVC Plant	EQT19 17-73 Primary Screen Filter Receiver No. 2
GRP042	PVC Plant	EQT181 3-05 Blend Tank No. 6 / Dryer No. 9
GRP042	PVC Plant	EQT180 2-05 Dryer 9 Centrifuges
GRP042	PVC Plant	EQT179 12-99 PVC Lamella System
GRP042	PVC Plant	EQT178 11-99 PVC Cooling Tower No. 1
GRP042	PVC Plant	EQT77 2-96 Diesel Tank
GRP042	PVC Plant	EQT76 23-94 Product Silo No. 13
GRP042	PVC Plant	EQT75 15-94 Slurry Dump Tank No. 1
GRP042	PVC Plant	EQT74 14-94 Dryer 8 Centrifuges

INVENTORIES

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP042	PVC Plant	EQT73 13-94 Dryer 7 Centrifuges
GRP042	PVC Plant	RLP9 23-80 South Combined Stack
GRP042	PVC Plant	RLP8 7-73 North Combined Stack
GRP042	PVC Plant	FUG10 9-05 Fugitives from Dumpster Storage
GRP042	PVC Plant	FUG6 1-86A Plant Fugitive Emissions
GRP042	PVC Plant	FUG5 19-80 Reactor Opening Losses
GRP042	PVC Plant	EQT186 8-05 Air Lock Vent Receiver
GRP042	PVC Plant	EQT185 7-05 Dryer Screener Ovens Recovery System
GRP042	PVC Plant	EQT184 6-05 PVC Cooling Tower No. 2
GRP042	PVC Plant	EQT72 12-94 Dryer 6 Centrifuges
GRP042	PVC Plant	EQT71 11-94 Dryer 5 Centrifuges
GRP042	PVC Plant	EQT70 10-94 Dryer 3 Centrifuges
GRP042	PVC Plant	EQT69 8-94 Dryer 1 Centrifuges
GRP042	PVC Plant	EQT68 5-94 Dryer 4 Centrifuges
GRP042	PVC Plant	EQT67 2-94 Dryer No. 8
GRP042	PVC Plant	EQT66 8-89 Product Silo No. 12
GRP042	PVC Plant	EQT36 5-78 Fluid Bed Dryer No. 4 - Back Mix
GRP042	PVC Plant	EQT35 4-78 Fluid Bed Dryer No. 5 - Plug Flow
GRP042	PVC Plant	EQT34 3-78 Fluid Bed Dryer No. 5 - Back Mix
GRP042	PVC Plant	EQT33 2-78 Fluid Bed Dryer No. 1
GRP042	PVC Plant	EQT32 1-78 Flash Dryer No. 1
GRP042	PVC Plant	EQT31 38-73 Product Silo No. 8
GRP042	PVC Plant	EQT30 37-73 Product Silo No. 7
GRP042	PVC Plant	EQT29 36-73 Product Silo No. 6
GRP042	PVC Plant	EQT28 35-73 Product Silo No. 5
GRP042	PVC Plant	EQT45 23-80A Dryer No. 2 Centrifuges
GRP042	PVC Plant	EQT44 22-80 Development Flash Dryer
GRP042	PVC Plant	EQT43 18-80 "C" Grade Silo No. 9
GRP042	PVC Plant	EQT42 17-80 Development Silo No. 10
GRP042	PVC Plant	EQT41 8-80 Day Tank No. 8
GRP042	PVC Plant	EQT40 7-80 Day Tank No. 7
GRP042	PVC Plant	EQT39 8-78 Fluid Bed Dryer No. 3 - Plug Flow
GRP042	PVC Plant	EQT38 7-78 Fluid Bed Dryer No. 3 - Back Mix
GRP042	PVC Plant	EQT37 6-78 Fluid Bed Dryer No. 4 - Plug Flow
GRP042	PVC Plant	EQT65 7-89 Product Silo No. 11
GRP042	PVC Plant	EQT64 5-89 Day Tank No. 4
GRP042	PVC Plant	EQT63 4-89 Dryer No. 7

INVENTORIES

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP042	PVC Plant	EQT62 3-89 Screen Filter Receiver No. 6
GRP042	PVC Plant	EQT61 2-89 Day Tank No. 6
GRP042	PVC Plant	EQT60 1-89 Dryer No. 6
GRP042	PVC Plant	EQT57 1-86C Solids Separation Feed Tank
GRP042	PVC Plant	EQT56 1-86B Recovery Slurry Blend Tank
GRP042	PVC Plant	EQT54 3-82 Day Tank No. 10
GRP042	PVC Plant	EQT53 2-82 Day Tank No. 9
GRP042	PVC Plant	EQT52 25-80 Development Fluid Bed Dyer
GRP042	PVC Plant	EQT51 24-80 Flash Dyer No. 2
GRP042	PVC Plant	EQT50 23-80F Blend Tank 5 Sweco (Train 4)
GRP042	PVC Plant	EQT49 23-80E Blend Tank 2 Sweco (Train 1)
GRP042	PVC Plant	EQT48 23-80D Blend Tank 5 (Train 4)
GRP042	PVC Plant	EQT47 23-80C Blend Tanks 1&2 (Train 1)
GRP042	PVC Plant	EQT46 23-80B Fluid Bed Dyer No. 2
GRP042	PVC Plant	EQT27 34-73 Product Silo No. 4
GRP042	PVC Plant	EQT26 33-73 Product Silo No. 3
GRP042	PVC Plant	EQT25 32-73 Product Silo No. 2
GRP042	PVC Plant	EQT24 31-73 Product Silo No. 1
GRP042	PVC Plant	EQT23 29-73 Day Tank No. 5
GRP042	PVC Plant	EQT22 27-73 Day Tank No. 3
GRP042	PVC Plant	EQT21 26-73 Day Tank No. 2
GRP042	PVC Plant	EQT20 25-73 Day Tank No. 1
GRP042	PVC Plant	EQT18 16-73 Screen Filter Receiver No. 5
GRP042	PVC Plant	EQT16 14-73 Secondary Screen Filter Receiver No. 2
GRP042	PVC Plant	EQT14 7-73F Development Blend Tank
GRP042	PVC Plant	EQT19 7-73A Blend Tank 3 (Train 2)
GRP042	PVC Plant	EQT10 7-73B Blend Tank 4 (Train 3)
GRP042	PVC Plant	EQT11 7-73C Blend Tank 3 Sweco (Train 2)
GRP042	PVC Plant	EQT12 7-73D Blend Tank 4 Sweco (Train 3)
GRP053	V-1 Train 1 Emissions	EQT45 23-80A Dryer No. 2 Centrifuges
GRP053	V-1 Train 1 Emissions	EQT46 23-80B Fluid Bed Dyer No. 2
GRP053	V-1 Train 1 Emissions	EQT47 23-80C Blend Tanks 1&2 (Train 1)
GRP053	V-1 Train 1 Emissions	EQT49 23-80E Blend Tank 2 Sweco (Train 1)
GRP053	V-1 Train 1 Emissions	EQT51 24-80 Flash Dyer No. 2
GRP053	V-1 Train 1 Emissions	EQT60 1-89 Dryer No. 6
GRP053	V-1 Train 1 Emissions	EQT72 12-94 Dryer 6 Centrifuges
GRP053	V-1 Train 1 Emissions	EQT75 15-94 Slurry Dump Tank No. 1

INVENTORIES

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP054	V-2 Train 2 Emissions	EQT8 4-73 Slurry Dump tanks, Trains 2, 3, 4
GRP054	V-2 Train 2 Emissions	EQT9 7-73A Blend Tank 3 (Train 2)
GRP054	V-2 Train 2 Emissions	EQT11 7-73C Blend Tank 3 Sweco (Train 2)
GRP054	V-2 Train 2 Emissions	EQT32 1-78 Flash Dryer No. 1
GRP054	V-2 Train 2 Emissions	EQT33 2-78 Fluid Bed Dryer No. 1
GRP054	V-2 Train 2 Emissions	EQT38 7-78 Fluid Bed Dryer No. 3 - Back Mix
GRP054	V-2 Train 2 Emissions	EQT39 8-78 Fluid Bed Dryer No. 3 - Plug Flow
GRP054	V-2 Train 2 Emissions	EQT69 8-94 Dryer 1 Centrifuges
GRP054	V-2 Train 2 Emissions	EQT70 10-94 Dryer 3 Centrifuges
GRP055	V-3 Train 3 Emissions	EQT8 4-73 Slurry Dump tanks, Trains 2, 3, 4
GRP055	V-3 Train 3 Emissions	EQT10 7-73B Blend Tank 4 (Train 3)
GRP055	V-3 Train 3 Emissions	EQT12 7-73D Blend Tank 4 Sweco (Train 3)
GRP055	V-3 Train 3 Emissions	EQT34 3-78 Fluid Bed Dryer No. 5 - Back Mix
GRP055	V-3 Train 3 Emissions	EQT35 4-78 Fluid Bed Dryer No. 5 - Plug Flow
GRP055	V-3 Train 3 Emissions	EQT36 5-78 Fluid Bed Dryer No. 4 - Back Mix
GRP055	V-3 Train 3 Emissions	EQT37 6-78 Fluid Bed Dryer No. 4 - Plug Flow
GRP055	V-3 Train 3 Emissions	EQT68 5-94 Dryer 4 Centrifuges
GRP055	V-3 Train 3 Emissions	EQT71 11-94 Dryer 5 Centrifuges
GRP056	V-4 Train 4 Emissions	EQT8 4-73 Slurry Dump tanks, Trains 2, 3, 4
GRP056	V-4 Train 4 Emissions	EQT48 23-80D Blend Tank 5 (Train 4)
GRP056	V-4 Train 4 Emissions	EQT50 23-80F Blend Tank 5 Sweco (Train 4)
GRP056	V-4 Train 4 Emissions	EQT63 4-89 Dryer No. 7
GRP056	V-4 Train 4 Emissions	EQT67 2-94 Dryer No. 8
GRP056	V-4 Train 4 Emissions	EQT73 13-94 Dryer 7 Centrifuges
GRP056	V-4 Train 4 Emissions	EQT74 14-94 Dryer 8 Centrifuges
GRP057	V-5 Train 5 Emissions	EQT180 2-05 Dryer 9 Centrifuges
GRP057	V-5 Train 5 Emissions	EQT181 3-05 Blend Tank No. 6 / Dryer No. 9
GRP058	V-Develop Development Train Emissions	EQT14 7-73F Development Blend Tank
GRP058	V-Develop Development Train Emissions	EQT44 22-80 Development Flash Dryer
GRP058	V-Develop Development Train Emissions	EQT52 25-80 Development Fluid Bed Dryer
GRP058	V-Develop Development Train Emissions	EQT56 1-86B Recovery Slurry Blend Tank
GRP058	V-Develop Development Train Emissions	EQT57 1-86C Solids Separation Feed Tank
GRP059	V-CAP CAP - PVC Plant Emissions	ARE6 1-82 PVC Research F facility
GRP059	V-CAP CAP - PVC Plant Emissions	EQT8 4-73 Slurry Dump tanks, Trains 2, 3, 4
GRP059	V-CAP CAP - PVC Plant Emissions	EQT9 7-73A Blend Tank 3 (Train 2)
GRP059	V-CAP CAP - PVC Plant Emissions	EQT10 7-73B Blend Tank 4 (Train 3)
GRP059	V-CAP CAP - PVC Plant Emissions	EQT11 7-73C Blend Tank 3 Sweco (Train 2)

INVENTORIES

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP059	V-CAP CAP - PVC Plant Emissions	EQT12 7-73D Blend Tank 4 Sweco (Train 3)
GRP059	V-CAP CAP - PVC Plant Emissions	EQT14 7-73F Development Blend Tank
GRP059	V-CAP CAP - PVC Plant Emissions	EQT15 13-73 Screen Filter Receiver No. 3
GRP059	V-CAP CAP - PVC Plant Emissions	EQT16 14-73 Secondary Screen Filter Receiver No. 2
GRP059	V-CAP CAP - PVC Plant Emissions	EQT17 15-73 Screen Filter Receiver No. 4
GRP059	V-CAP CAP - PVC Plant Emissions	EQT18 16-73 Screen Filter Receiver No. 5
GRP059	V-CAP CAP - PVC Plant Emissions	EQT19 17-73 Primary Screen Filter Receiver No. 2
GRP059	V-CAP CAP - PVC Plant Emissions	EQT20 25-73 Day Tank No. 1
GRP059	V-CAP CAP - PVC Plant Emissions	EQT21 26-73 Day Tank No. 2
GRP059	V-CAP CAP - PVC Plant Emissions	EQT22 27-73 Day Tank No. 3
GRP059	V-CAP CAP - PVC Plant Emissions	EQT23 28-73 Day Tank No. 5
GRP059	V-CAP CAP - PVC Plant Emissions	EQT24 31-73 Product Silo No. 1
GRP059	V-CAP CAP - PVC Plant Emissions	EQT25 32-73 Product Silo No. 2
GRP059	V-CAP CAP - PVC Plant Emissions	EQT26 33-73 Product Silo No. 3
GRP059	V-CAP CAP - PVC Plant Emissions	EQT27 34-73 Product Silo No. 4
GRP059	V-CAP CAP - PVC Plant Emissions	EQT28 35-73 Product Silo No. 5
GRP059	V-CAP CAP - PVC Plant Emissions	EQT29 36-73 Product Silo No. 6
GRP059	V-CAP CAP - PVC Plant Emissions	EQT30 37-73 Product Silo No. 7
GRP059	V-CAP CAP - PVC Plant Emissions	EQT31 38-73 Product Silo No. 8
GRP059	V-CAP CAP - PVC Plant Emissions	EQT32 1-78 Flash Dryer No. 1
GRP059	V-CAP CAP - PVC Plant Emissions	EQT33 2-78 Fluid Bed Dryer No. 1
GRP059	V-CAP CAP - PVC Plant Emissions	EQT34 3-78 Fluid Bed Dryer No. 5 - Back Mix
GRP059	V-CAP CAP - PVC Plant Emissions	EQT35 4-78 Fluid Bed Dryer No. 5 - Plug Flow
GRP059	V-CAP CAP - PVC Plant Emissions	EQT36 5-78 Fluid Bed Dryer No. 4 - Back Mix
GRP059	V-CAP CAP - PVC Plant Emissions	EQT37 6-78 Fluid Bed Dryer No. 4 - Plug Flow
GRP059	V-CAP CAP - PVC Plant Emissions	EQT38 7-78 Fluid Bed Dryer No. 3 - Back Mix
GRP059	V-CAP CAP - PVC Plant Emissions	EQT39 8-78 Fluid Bed Dryer No. 3 - Plug Flow
GRP059	V-CAP CAP - PVC Plant Emissions	EQT40 7-80 Day Tank No. 7
GRP059	V-CAP CAP - PVC Plant Emissions	EQT41 8-80 Day Tank No. 8
GRP059	V-CAP CAP - PVC Plant Emissions	EQT42 17-80 Development Silo No. 10
GRP059	V-CAP CAP - PVC Plant Emissions	EQT43 18-80 "C" Grade Silo No. 9
GRP059	V-CAP CAP - PVC Plant Emissions	EQT44 22-80 Development Flash Dryer
GRP059	V-CAP CAP - PVC Plant Emissions	EQT45 23-80A Dryer No. 2 Centrifuges
GRP059	V-CAP CAP - PVC Plant Emissions	EQT46 23-80B Fluid Bed Dryer No. 2
GRP059	V-CAP CAP - PVC Plant Emissions	EQT47 23-80C Blend Tanks 1&2 (Train 1)
GRP059	V-CAP CAP - PVC Plant Emissions	EQT48 23-80D Blend Tank 5 (Train 4)
GRP059	V-CAP CAP - PVC Plant Emissions	EGT49 23-80E Blend Tank 2 Sweco (Train 1)

INVENTORIES

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

Subject Item Group:

ID	Description	Included Components (from Above)
GRP059	V-CAP CAP - PVC Plant Emissions	EQT50 23-80F Blend Tank 5 Sweco (Train 4)
GRP059	V-CAP CAP - PVC Plant Emissions	EQT51 24-80 Flash Dryer No. 2
GRP059	V-CAP CAP - PVC Plant Emissions	EQT52 25-80 Development Fluid Bed Dryer
GRP059	V-CAP CAP - PVC Plant Emissions	EQT53 2-82 Day Tank No. 9
GRP059	V-CAP CAP - PVC Plant Emissions	EQT54 3-82 Day Tank No. 10
GRP059	V-CAP CAP - PVC Plant Emissions	EQT55 1-86B Recovery Slurry Blend Tank
GRP059	V-CAP CAP - PVC Plant Emissions	EQT57 1-86C Solids Separation Feed Tank
GRP059	V-CAP CAP - PVC Plant Emissions	EQT60 1-89 Dryer No. 6
GRP059	V-CAP CAP - PVC Plant Emissions	EQT61 2-89 Day Tank No. 6
GRP059	V-CAP CAP - PVC Plant Emissions	EQT62 3-89 Screen Filter Receiver No. 6
GRP059	V-CAP CAP - PVC Plant Emissions	EQT63 4-89 Dryer No. 7
GRP059	V-CAP CAP - PVC Plant Emissions	EQT67 2-94 Dryer No. 8
GRP059	V-CAP CAP - PVC Plant Emissions	EQT68 5-94 Dryer 4 Centrifuges
GRP059	V-CAP CAP - PVC Plant Emissions	EQT65 7-89 Product Silo No. 11
GRP059	V-CAP CAP - PVC Plant Emissions	EQT66 8-89 Product Silo No. 12
GRP059	V-CAP CAP - PVC Plant Emissions	EQT67 2-94 Dryer No. 4
GRP059	V-CAP CAP - PVC Plant Emissions	EQT68 5-94 Dryer 4 Centrifuges
GRP059	V-CAP CAP - PVC Plant Emissions	EQT69 8-94 Dryer 1 Centrifuges
GRP059	V-CAP CAP - PVC Plant Emissions	EQT70 10-94 Dryer 3 Centrifuges
GRP059	V-CAP CAP - PVC Plant Emissions	EQT71 11-94 Dryer 5 Centrifuges
GRP059	V-CAP CAP - PVC Plant Emissions	EQT72 12-94 Dryer 6 Centrifuges
GRP059	V-CAP CAP - PVC Plant Emissions	EQT73 13-94 Dryer 7 Centrifuges
GRP059	V-CAP CAP - PVC Plant Emissions	EQT74 14-94 Dryer 8 Centrifuges
GRP059	V-CAP CAP - PVC Plant Emissions	EQT75 15-94 Slurry Dump Tank No. 1
GRP059	V-CAP CAP - PVC Plant Emissions	EQT76 23-94 Product Silo No. 13
GRP059	V-CAP CAP - PVC Plant Emissions	EQT77 2-96 Diesel Tank
GRP059	V-CAP CAP - PVC Plant Emissions	EQT178 11-98 PVC Cooling Tower No. 1
GRP059	V-CAP CAP - PVC Plant Emissions	EQT179 12-99 PVC Lamella System
GRP059	V-CAP CAP - PVC Plant Emissions	EQT180 2-05 Dryer 9 Centrifuges
GRP059	V-CAP CAP - PVC Plant Emissions	EQT181 3-05 Blend Tank No. 6 / Dryer No. 9
GRP059	V-CAP CAP - PVC Plant Emissions	EQT184 6-05 PVC Cooling Tower No. 2
GRP059	V-CAP CAP - PVC Plant Emissions	EQT185 7-05 Dryer Screener Ovens Recovery System
GRP059	V-CAP CAP - PVC Plant Emissions	EQT186 8-05 Air Lock Vent Receiver
GRP059	V-CAP CAP - PVC Plant Emissions	FUG5 19-80 Reactor Opening Losses
GRP059	V-CAP CAP - PVC Plant Emissions	FUG6 1-86A Plant Fugitive Emissions
GRP059	V-CAP CAP - PVC Plant Emissions	FUG10 9-05 Fugitives from Dumpster Storage
GRP059	V-CAP CAP - PVC Plant Emissions	GRP53 V-1 Train 1 Emissions
GRP059	V-CAP CAP - PVC Plant Emissions	GRP54 V-2 Train 2 Emissions

INVENTORIES

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air • Title V Regular Permit Minor Mod

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP059	V-CAP CAP - PVC Plant Emissions	GRP55 V-3 Train 3 Emissions
GRP059	V-CAP CAP - PVC Plant Emissions	GRP56 V-4 Train 4 Emissions
GRP059	V-CAP CAP - PVC Plant Emissions	GRP57 V-5 Train 5 Emissions
GRP059	V-CAP CAP - PVC Plant Emissions	GRP58 V-Develop Development Train Emissions
GRP059	V-CAP CAP - PVC Plant Emissions	RLP8 7-73 North Combined Stack
GRP059	V-CAP CAP - PVC Plant Emissions	RLP9 23-80 South Combined Stack
GRP060	Alternate Scenario for 2-82 - Day Tank No. 9	ECT53 2-82 Day Tank No. 9
GRP061	Alternate Scenario for 3-82 - Day Tank No. 10	ECT54 3-82 Day Tank No. 10
GRP062	Cooling Tower Group	EQT178 11-99 PVC Cooling Tower No. 1
GRP062	Cooling Tower Group	EQT179 12-99 PVC Lamella System
GRP062	Cooling Tower Group	EQT184 6-05 PVC Cooling Tower No. 2

Relationships:

Subject Item	Relationship	Subject Item
EQT9 7-73A Blend Tank 3 (Train 2)	Vents to	RLP8 7-73 North Combined Stack
EQT10 7-73B Blend Tank 4 (Train 3)	Vents to	RLP8 7-73 North Combined Stack
EQT11 7-73C Blend Tank 3 Sweco (Train 2)	Vents to	RLP8 7-73 North Combined Stack
EQT12 7-73D Blend Tank 4 Sweco (Train 3)	Vents to	RLP8 7-73 North Combined Stack
EQT14 7-73F Development Blend Tank	Vents to	RLP8 7-73 North Combined Stack
EQT45 23-80A Dryer No. 2 Centrifuges	Vents to	RLP9 23-80 South Combined Stack
EQT46 23-80B Fluid Bed Dryer No. 2	Vents to	RLP9 23-80 South Combined Stack
EQT47 23-80C Blend Tanks 1&2 (Train 1)	Vents to	RLP9 23-80 South Combined Stack
EQT48 23-80D Blend Tank 5 (Train 4)	Vents to	RLP9 23-80 South Combined Stack
EQT49 23-80E Blend Tank 2 Sweco (Train 1)	Vents to	RLP9 23-80 South Combined Stack
EQT50 23-80F Blend Tank 5 Sweco (Train 4)	Vents to	RLP9 23-80 South Combined Stack
EQT56 1-86B Recovery Slurry Blend Tank	Vents to	RLP9 23-80 South Combined Stack

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
ARE006	1-82 PVC Research Facility				10	68
EQT003	4-73 Slurry Dump tanks, Trains 2, 3, 4	68	3850	1.1	75	120
EQT009	7-73A Blend Tank 3 (Train 2)	107	9850	1.4	120	120
EQT010	7-73B Blend Tank 4 (Train 3)	107	9850	1.4	120	120
EQT011	7-73C Blend Tank 3 Sweco (Train 2)	107	9850	1.4	120	120
EQT012	7-73D Blend Tank 4 Sweco (Train 3)	107	9850	1.4	120	120
EQT014	7-73F Development Blend Tank	107	9850	1.4	120	120
EQT015	13-73 Screen Filter Receiver No. 3	86	1000	.5	60	110
EQT016	14-73 Secondary Screen Filter Receiver No. 2	56	660	.5	60	110

INVENTORIES

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT017 15-73 Screen Filter Receiver No. 4	86	1000	.5		60	110
EQT018 16-73 Screen Filter Receiver No. 5	86	1000	.5		60	110
EQT019 17-73 Primary Screen Filter Receiver No. 2	110	1300	.5		60	110
EQT020 25-73 Day Tank No. 1	83	440	.34		80	110
EQT021 26-73 Day Tank No. 2	83	440	.34		80	110
EQT022 27-73 Day Tank No. 3	80	1800	.68		80	110
EQT023 29-73 Day Tank No. 5	80	1800	.68		80	110
EQT024 31-73 Product Silo No. 1	19	3400	1.94		120	110
EQT025 32-73 Product Silo No. 2	19	3400	1.94		120	110
EQT026 33-73 Product Silo No. 3	19	3400	1.94		120	110
EQT027 34-73 Product Silo No. 4	19	3400	1.94		120	110
EQT028 35-73 Product Silo No. 5	19	3400	1.94		120	110
EQT029 36-73 Product Silo No. 6	19	3400	1.94		120	110
EQT030 37-73 Product Silo No. 7	23	4100	1.94		120	110
EQT031 38-73 Product Silo No. 8	23	4100	1.94		120	110
EQT032 1-78 Flash Dryer No. 1	64.65	48000	12.38		50	150
EQT033 2-78 Fluid Bed Dryer No. 1	91	11000	1.6		50	150
EQT034 3-78 Fluid Bed Dryer No. 5 - Back Mix	84	20000	2.25		75	150
EQT035 4-78 Fluid Bed Dryer No. 5 - Plug Flow	53	5000	1.41		75	120
EQT036 5-78 Fluid Bed Dryer No. 4 - Back Mix	71	17000	2.25		75	150
EQT037 6-78 Fluid Bed Dryer No. 4 - Plug Flow	91	8500	1.41		75	120
EQT038 7-78 Fluid Bed Dryer No. 3 - Back Mix	96	23000	2.25		80	150
EQT039 8-78 Fluid Bed Dryer No. 3 - Plug Flow	89	8300	1.41		75	120
EQT040 7-80 Day Tank No. 7	330	1750	.34		80	110
EQT041 8-80 Day Tank No. 8	330	1800	.34		80	110
EQT042 17-80 Development Silo No. 10	83	440	.34		120	110
EQT043 18-80 °C Grade Silo No. 9	170	880	.34		120	110
EQT044 22-80 Development Flash Dryer	80	8500	1.5		65	130
EQT045 23-80A Dryer No. 2 Centrifuges	28	21400	4		108	110
EQT046 23-80B Fluid Bed Dryer No. 2	28	21400	4		108	110
EQT047 23-80C Blend Tanks 1&2 (Train 1)	28	21400	4		108	110
EQT048 23-80D Blend Tank 5 (Train 4)	28	21400	4		108	110
EQT049 23-80E Blend Tank 2 Sweco (Train 4)	28	21400	4		108	110
EQT050 23-80F Blend Tank 5 Sweco (Train 4)	28	21400	4		108	110
EQT051 24-80 Flash Dryer No. 2	54.57	31500	3.5		56	150
EQT052 25-80 Development Fluid Bed Dryer	68.4	3800	1.1		45	140
EQT053 2-82 Day Tank No. 9	190	4100	.67		82	110
EQT054 3-82 Day Tank No. 10	190	4100	.67		82	110
EQT055 1-89 Dryer No. 6	88	28000	2.6		80	150
EQT056 2-89 Day Tank No. 6	80	1800	.68		80	110
EQT057 3-89 Screen Filter Receiver No. 6	86	1000	.5		60	110
EQT058 4-89 Dryer No. 7	74	74000	4.6		90	125

INVENTORIES

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

Stack Information:

ID		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT064	5-89 Day Tank No. 4	86	4100	1		80	110
EQT065	7-89 Product Silo No. 11	39	6900	1.94		116	120
EQT066	8-89 Product Silo No. 12	39	6900	1.94		116	120
EQT067	2-94 Dyer No. 8	74	74000	4.6		90	125
EQT068	5-94 Dyer 4 Centrifuges	0	.23	1.2		75	120
EQT069	8-94 Dyer 1 Centrifuges	0	.23	1.2		75	120
EQT070	10-94 Dyer 3 Centrifuges	0	.23	1.2		75	120
EQT071	11-94 Dyer 5 Centrifuges	0	.23	1.2		75	120
EQT072	12-94 Dyer 6 Centrifuges	0	.23	1.2		75	120
EQT073	13-94 Dyer 7 Centrifuges	.02	.23	.5		75	120
EQT074	14-94 Dyer 8 Centrifuges	.02	.23	.5		75	120
EQT075	15-94 Slurry Dump Tank No. 1	44	934	.67		40	120
EQT076	23-94 Product Silo No. 13	39	6900	1.94		116	120
EQT180	2-05 Dyer 9 Centrifuges			1.2		75	120
EQT181	3-05 Blend Tank No. 6 / Dyer No. 9	36	71550	6.5		130	140
FUG005	19-80 Reactor Opening Losses	0	1.7		3.28	45	68
RLP008	7-73 North Combined Stack	107	9850	1.4		120	120
RLP009	23-80 South Combined Stack	28	21400	4		108	110

Fee Information:

Sub Item Id	Multiplier	Units Of Measure	Fee Desc
GRP042	1400	MM Lb/Yr	0560 - PVC Manufacture (Rated Capacity)

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	PM ₁₀	Avg lb/hr	Max lb/hr	VOC	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 006 1-82										0.003
EQT 015 13-73		0.03								
EQT 016 14-73		0.01								
EQT 017 15-73		0.03								
EQT 018 16-73		0.03								
EQT 019 17-73		0.03								
EQT 020 25-73		0.01								
EQT 021 26-73		0.01								
EQT 022 27-73		0.04								
EQT 023 29-73		0.04								
EQT 024 31-73		0.12								
EQT 025 32-73		0.12								
EQT 026 33-73		0.12								
EQT 027 34-73		0.12								
EQT 028 35-73		0.12								
EQT 029 36-73		0.12								
EQT 030 37-73		0.12								
EQT 031 38-73		0.12								

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2455 - Georgia Gulf Chemicals & Viny's LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	PM ₁₀	VOC				
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 032 1-78		1.06				
EQT 033 2-78		0.05				
EQT 034 3-78		0.29				
EQT 035 4-78		0.15				
EQT 036 5-78		0.29				
EQT 037 6-78		0.15				
EQT 038 7-78		0.29				
EQT 039 8-78		0.15				
EQT 040 7-80		0.04				
EQT 041 8-80		0.04				
EQT 042 17-80		0.01				
EQT 043 18-80		0.03				
EQT 044 22-80		0.90				
EQT 046 23-80		0.08				
EQT 051 24-80		1.46				
EQT 052 25-80		0.04				
EQT 053 2-82		0.05				
EQT 054 3-82		0.05				

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2455 - Georgia Gulf Chemicals & Viny's LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	PM ₁₀		VOC		Max lb/hr	Avg lb/hr	TonsNear	Max lb/hr	Avg lb/hr	TonsNear
	P M ₁₀	Avg lb/hr	TonsNear	Avg lb/hr						
EQT 057 1-86C										0.001
EQT 060 1-89		0.36								
EQT 061 2-89		0.04								
EQT 062 3-89		0.03								
EQT 063 4-89		0.84								
EQT 064 5-89		0.04								
EQT 065 7-89		0.15								
EQT 066 8-89		0.15								
EQT 067 2-94		1.68								
EQT 076 23-94		0.15								
EQT 077 2-96										1.20
EQT 178 11-99		9.00								5.25
EQT 179 12-99		2.62								4.56
EQT 181 3-05		2.17								
EQT 184 6-05		4.73								2.76
EQT 185 7-05		0.10								
EQT 186 8-05		0.01								
FUG 005 19-80										1.97

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-Y2

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	PM ₁₀	VOC				
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FUG 006 1-86A						13.08
FUG 010 9-05						12.00
GRP 053						61.50
GRP 054						61.50
GRP 055						61.50
GRP 056						61.50
GRP 057						61.50
GRP 058						0.004
GRP 059	12.52		54.80	11.22		49.27
RLP 009 23-30						
	0.07					

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 54.80 tons/yr

VOC: 49.27 tons/yr

Emission rates Notes:

EQT 015	PM10	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059
EQT 016	PM10	Max lb/hr	Months: All Year This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059
EQT 017	PM10	Max lb/hr	Months: All Year This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059
EQT 019	PM10	Max lb/hr	Months: All Year This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059
EQT 020	PM10	Max lb/hr	Months: All Year This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059

EMISSION RATES FOR CRITERIA POLLUTANTS

AJ ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V3

Air Title V Source Permit Minor Modification Number: 881-VZ

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

All phases

EQT 051	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 052	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 053	PM10	Max lb/hr	. This emission rate only applies when this tank is operated in PVC service. This tank can also operate in centrate water service, but no emissions result when in centrate water service. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 054	PM10	Max lb/hr	. This emission rate only applies when this tank is operated in PVC service. This tank can also operate in centrate water service, but no emissions result when in centrate water service. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 057	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 060	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 061	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 062	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 063	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 064	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 065	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 066	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 067	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 076	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 077	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 178	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 178	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 179	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 179	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 181	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 184	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 184	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 185	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

All phases

EQT 186	PM10	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
FUG 005	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
FUG 006	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
FUG 010	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 053	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 054	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 055	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 056	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 057	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 058	VOC	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 059	PM10	Avg lb/hr	. PVC Plant Emissions CAP, EIQ No. V-CAP Which Months: All Year
GRP 059	PM10	Tons/year	. PVC Plant Emissions CAP, EIQ No. V-CAP Which Months: All Year
GRP 059	VOC	Avg lb/hr	. PVC Plant Emissions CAP, EIQ No. V-CAP Which Months: All Year
GRP 059	VOC	Tons/year	. PVC Plant Emissions CAP, EIQ No. V-CAP Which Months: All Year
RLP 009	PM10	Max lb/hr	. This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	Chloroform			Methanol			Phenol			Vinyl chloride		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 006 1-82												0.003
EQT 037 1-86C												0.001
EQT 178 11-99	0.31						0.94					4.00
EQT 179 12-99	0.54						0.02					4.00
EQT 184 6-05	0.16						0.49					2.10
FUG 005 19-80												1.97
FUG 006 1-86A				5.20								7.88
FUG 010 9-05												12.00
GRP 053												61.50
GRP 054												61.50
GRP 055												61.50
GRP 056												61.50
GRP 057												61.50
GRP 058												0.004
GRP 059	0.05			0.20	2.96		12.95	0.31		13.6	2.45	30.73

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:Chloroform: 0.20 tons/yr
Methanol: 12.95 tons/yr

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AID: 2455 - Georgia Gulf Chemicals & Vnyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

All phases

Phenol: 1.36 tons/yr
Vinyl chloride: 10.73 tons/yr

Emission Rates Notes:

ARE 006 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 057 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 178 Chloroform	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 178 Phenol	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 178 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 179 Chloroform	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 179 Phenol	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 179 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 184 Chloroform	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 184 Phenol	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
EQT 184 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
FUG 005 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
FUG 006 Methanol	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
FUG 006 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
FUG 010 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 053 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 054 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 055 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 056 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 057 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year
GRP 058 Vinyl chloride	Max lb/hr	This source operates under a cap. The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059 Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

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All phases

GRP 058	This source operates under a cap.	The emissions shall be limited to the rates listed in the PVC Plant Emissions CAP, EIQ No. V-CAP, GRP059	Which Months: All Year
GRP 059	Chloroform	PVC Plant Emissions CAP, EIQ No. V-CAP	Which Months: All Year
GRP 059	Chloroform	PVC Plant Emissions CAP, EIQ No. V-CAP	Which Months: All Year
GRP 059	Methanol	PVC Plant Emissions CAP, EIQ No. V-CAP	Which Months: All Year
GRP 059	Methanol	PVC Plant Emissions CAP, EIQ No. V-CAP	Which Months: All Year
GRP 059	Phenol	PVC Plant Emissions CAP, EIQ No. V-CAP	Which Months: All Year
GRP 059	Phenol	PVC Plant Emissions CAP, EIQ No. V-CAP	Which Months: All Year
GRP 059	Vinyl chloride	PVC Plant Emissions CAP, EIQ No. V-CAP	Which Months: All Year
GRP 059	Vinyl chloride	PVC Plant Emissions CAP, EIQ No. V-CAP	Which Months: All Year

SPECIFIC REQUIREMENTS

AU ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

1-82 PVC Research Facility

- 1 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with 40 CFR 61 Subpart F NESHAP constitutes MACT. [LAC 33:III.51.09.A]
- 2 Vinyl chloride <= 10 ppm, except as provided in 40 CFR 61.64(a)(2) and 61.65(a). Subpart F. [40 CFR 61.64(a)(1)]
Which Months: All Year Statistical Basis: Three-hour average
- 3 Concentration of VCM in each exhaust gas stream from each stripper: Vinyl chloride <= 10 ppm. [40 CFR 61.64(b)]
Which Months: All Year Statistical Basis: Three-hour average
- 4 Concentration of VCM in each exhaust gas stream from each mixing, weighing, or holding container in vinyl chloride service which precedes the stripper: Vinyl chloride <= 10 ppm. [40 CFR 61.64(c)]
Which Months: All Year Statistical Basis: Three-hour average
- 5 Concentration of vinyl chloride in each exhaust gas stream from each monomer recovery system: Vinyl chloride <= 10 ppm. [40 CFR 61.64(d)]
Which Months: All Year Statistical Basis: Three-hour average
- 6 Vinyl chloride recordkeeping by electronic or hard copy as needed. For each VCM emission determined per 40 CFR 61.68(e) to be in excess of emission limits, record source I.D., the date, time, and duration of excess emission, cause, total VCM loss during excess emission, and method used to compute loss. This applies to all exhaust streams preceding and including the strippers that vent to the monomer recovery system and also applies to the bypass of recovery system and controls per 40 CFR 61.68(d). [40 CFR 61.68(f)]
- 7 Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a), and 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F. [40 CFR 61.68]
- 8 Submit report Due quarterly, by the 15th of March, June, September and December. Submit report according to the schedule specified in 40 CFR 61.70(a) and (b). Include the information specified in 40 CFR 61.70(c)(1) through (c)(4), as applicable. Subpart F. [40 CFR 61.70]

EQT032 1-78 Flash Dryer No. 1

- 9 Total suspended particulate <= 17.9 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1.311.B]
Which Months: All Year Statistical Basis: None specified
- 10 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]
- 11 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.51.09.A]
- 12 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
Which Months: All Year Statistical Basis: None specified

EQT033 2-78 Fluid Bed Dryer No. 1

SPECIFIC REQUIREMENTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

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EQT033 2-78 Fluid Bed Dryer No. 1

13 Total suspended particulate <= 2.22 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1.311.B]

Which Months: All Year Statistical Basis: None Specified

14 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]

15 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

16 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

EQT034 3-78 Fluid Bed Dryer No. 5 - Back Mix

17 Total suspended particulate <= 4.76 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1.311.B]

Which Months: All Year Statistical Basis: None Specified

18 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]

19 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

20 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: None Specified

EQT035 4-78 Fluid Bed Dryer No. 5 - Plug Flow

21 Total suspended particulate <= 2.58 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1.311.B]

Which Months: All Year Statistical Basis: None Specified

22 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]

23 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

EQT035 4-78 Fluid Bed Dryer No. 5 - Plug Flow

- 24 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(xi)]
Which Months: All Year Statistical Basis: None specified

EQT036 5-78 Fluid Bed Dryer No. 4 - Back Mix

- 25 Total suspended particulate <= 4.76 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1.311.B]
Which Months: All Year Statistical Basis: None specified
- 26 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]
- 27 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]
- 28 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(xi)]
Which Months: All Year Statistical Basis: None specified

EQT037 6-78 Fluid Bed Dryer No. 4 - Plug Flow

- 29 Total suspended particulate <= 2.58 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1.311.B]
Which Months: All Year Statistical Basis: None specified
- 30 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]
- 31 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]
- 32 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(xi)]
Which Months: All Year Statistical Basis: None specified

EQT038 7-78 Fluid Bed Dryer No. 3 - Back Mix

- 33 Total suspended particulate <= 4.76 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1.311.B]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

EQT038 7-78 Fluid Bed Dryer No. 3 - Back Mix

34 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]

35 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

36 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

EQT039 8-78 Fluid Bed Dryer No. 3 • Plug Flow

37 Total suspended particulate <= 2.58 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year Statistical Basis: None specified

38 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]

39 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

40 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

EQT044 22-80 Development Flash Dryer

41 Total suspended particulate <= 5.96 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year Statistical Basis: None specified

42 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]

43 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

44 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AJ ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

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EQT046 23-80B Fluid Bed Dryer No. 2

45 Total suspended particulate <= 2.22 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1.311.B]

Which Months: All Year Statistical Basis: None specified

46 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permitee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

47 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]

EQT051 24-80 Flash Dryer No. 2

48 Total suspended particulate <= 16.5 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1.311.B]

Which Months: All Year Statistical Basis: None specified

49 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]

50 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permitee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

51 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

EQT052 25-80 Development Fluid Bed Dryer

52 Total suspended particulate <= 0.877 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1.311.B]

Which Months: All Year Statistical Basis: None specified

53 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]

54 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permitee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

55 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

EQT056 1-86B Recovery Slurry Blend Tank

SPECIFIC REQUIREMENTS

AID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-Y2

Air - Title V Regular Permit Minor Mod

EQT056 1-86B Recovery Slurry Blend Tank

56 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

57 Weighted average residual concentration: Vinyl chloride \leq 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: None specified
58 Inprocess wastewater (vinyl chloride $>$ 10ppm): Vinyl chloride \leq 10 ppm before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]

59 Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]

EQT057 1-86C Solids Separation Feed Tank

60 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

61 Weighted average residual concentration: Vinyl chloride \leq 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: None specified
62 Inprocess wastewater (vinyl chloride $>$ 10ppm): Vinyl chloride \leq 10 ppm before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]

63 Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]

EQT060 1-89 Dryer No. 6

64 Total suspended particulate \leq 8.56 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year Statistical Basis: None specified

65 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]

66 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

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EQT060 1-89 Dryer No. 6

67 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
Which Months: All Year Statistical Basis: None specified

EQT063 4-89 Dryer No. 7

68 Total suspended particulate <= 25.2 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1.311.B]
Which Months: All Year Statistical Basis: None specified

69 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be visually inspected for opacity on a daily basis. Maintenance inspections shall be performed every six months and whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Air Quality Division (State-Only Requirement). [LAC 33:III.501.C.6]

70 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permitee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

71 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
Which Months: All Year Statistical Basis: None specified

EQT067 2-94 Dryer No. 8

72 Total suspended particulate <= 25.2 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1.311.B]
Which Months: All Year Statistical Basis: None specified

73 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]

74 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permitee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

75 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
Which Months: All Year Statistical Basis: None specified

EQT181 3-05 Blend Tank No. 6 / Dryer No. 9

76 Total suspended particulate <= 13.6 lb/hr (Dryer No. 9 only). The rate of emission shall be the total of all emission points from the source. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified

77 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permitee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-Y2

Air - Title V Regular Permit Minor Mod

EQT181 3-05 Blend Tank No. 6 / Dryer No. 9

78 The cyclone collectors shall be maintained and operated properly. Cyclone vents shall be inspected for visible emissions on a daily basis. Maintenance inspections shall be performed every six months or whenever visual checks indicate maintenance may be necessary. Maintenance shall be performed as necessary. Records of visual checks and maintenance inspections of the cyclone collectors shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (Dryer No. 9 only) (State-Only Requirement). [LAC 33:III.501.C.6]

79 Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(iii)]
Which Months: All Year Statistical Basis: None specified

FUG005 19-80 Reactor Opening Losses

80 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall not exceed a reporting quarterly average reactor opening loss (ROL) of 0.0063 g/kg. Quarterly ROL average shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]

81 Reactor opening loss: Vinyl chloride <= 0.02 g/kg (0.04 lb/ton) of polyvinyl chloride product, except as provided in 40 CFR 61.64(f)(1), with the product determined on a dry solids basis. Subpart F. [40 CFR 61.64(a)(2)]

82 Vinyl chloride monitored by the regulation's specified method(s) as needed. Use a portable hydrocarbon detector with a sensitivity of <=10 ppm, or 40 CFR 61 Subpart F, Appendix B, Method 106. [40 CFR 61.67(g)(5)(i)]
Which Months: All Year Statistical Basis: None specified

83 Except as provided in 40 CFR 61.67(g)(5)(ii), determine the reactor opening loss using the equation specified in 40 CFR 61.67(g)(5)(i). Subpart F. [40 CFR 61.67(g)(5)(i)]

84 Vinyl chloride recordkeeping by electronic or hard copy as needed. Keep records of VCM emissions calculations for each reactor opening. [40 CFR 61.67(g)(5)]

85 Submit report: Due quarterly, by the 15th of March, June, September and December. Submit report according to the schedule specified in 40 CFR 61.70(a) and (b). Include the information specified in 40 CFR 61.70(c)(1) through (c)(4), as applicable. Subpart F. [40 CFR 61.70]

86 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4), as applicable, and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

FUG006 1-86A Plant Fugitive Emissions

87 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater with mechanical seals. [LAC 33:III.2111]

88 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with 40 CFR 63 Subpart H (HON) constitutes MACT. [LAC 33:III.5109.A]

89 Comply with 40 CFR 63 Subpart UU, LAC 33:III.2122, 40 CFR 61 Subpart F, and 40 CFR 61 Subpart V by implementing the Louisiana Consolidated Fugitive Emission Program. Compliance is achieved through compliance with 40 CFR 63 Subpart H (HON) and 40 CFR 61 Subpart F (area monitoring). [40 CFR 63.1019, LAC 33:III.2122, 40 CFR 61.65(b), 40 CFR 61.240, LAC 33:III.501]

90 Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]

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AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

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FUG006 1-86A Plant Fugitive Emissions

91 Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.1163, 40 CFR 63.1164, 40 CFR 63.1168, 40 CFR 63.1169, and 40 CFR 63.1172 through 63.1174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.1174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.1168(f)(3) and 63.1175(e)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.114(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.1174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.1162(f)]

92 Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.1162(b) and 63.1163(e) through (j). If a reading of 10,000 ppm (phase I); 5,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1163(c). Subpart H. [40 CFR 63.1163(b)(1)]

93 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.1163(c). Subpart H. [40 CFR 63.1163(b)(3)]

Which Month: All Year Statistical Basis: None specified
94 Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.1163(c)(3) and 40 CFR 63.1171. Subpart H. [40 CFR 63.1163(c)]

95 Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.1176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.1163(d)(2)]

96 Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.1163(d)(4). Subpart H. [40 CFR 63.1163(d)(4)]

97 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.1172, or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.1163(a) through (d). Subpart H. [40 CFR 63.1163(e)(1)]

98 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement instead of the requirements in 40 CFR 63.1163(a) through (d). Subpart H. [40 CFR 63.1163(e)(2)]

99 Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.1163(a) through (d). Subpart H. [40 CFR 63.1163(e)(3)]

100 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.1180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.1163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.1163(a) through (d). Subpart H. [40 CFR 63.1163(e)(4)]

Which Month: All Year Statistical Basis: None specified

101 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.1163(a) through (d). Subpart H. [40 CFR 63.1163(e)(6)(i)]

102 Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.1171. Comply with this requirement instead of the requirements in 40 CFR 63.1163(a) through (d). Subpart H. [40 CFR 63.1163(e)(6)]

SPECIFIC REQUIREMENTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

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FUG006 1-86A Plant Fugitive Emissions

103 Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)]

Which Month: All Year Statistical Basis: None specified
104 Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(1)]

105 Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(2)]

Which Month: All Year Statistical Basis: None specified

106 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(f) and (i). Subpart H. [40 CFR 63.164(a)]

107 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(c)]

108 Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]

109 Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]

110 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]

111 Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]

112 Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 63.164(a) through (h). Subpart H. [40 CFR 63.164(i)(2)]

Which Month: All Year Statistical Basis: None specified

113 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H. [40 CFR 63.164]

Which Month: All Year Statistical Basis: None specified

114 Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]

Which Month: All Year Statistical Basis: None specified

115 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 2455 - Georgia Gulf Chemicals & Viny's LLC

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- 116 Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
Which Months: All Year Statistical Basis: None specified
- 117 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.165(a) and (b). Subpart H. [40 CFR 63.165(d)(2)]
- 118 Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H. [40 CFR 63.166]
- 119 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H. [40 CFR 63.167]
- 120 Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
Which Months: All Year Statistical Basis: None specified
- 121 Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
Which Months: All Year Statistical Basis: None specified
- 122 Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
Which Months: All Year Statistical Basis: None specified
- 123 Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f).
Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 124 Valves in gas/vapor service or light liquid service (after leak repair): Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]
125 Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]
Which Months: All Year Statistical Basis: None specified
- 126 Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
127 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(1)]

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- 128 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.1.68(b) through (f). Subpart H. [40 CFR 63.1.68(h)(2)]
- Which Months: All Year Statistical Basis: None specified
- 129 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.1.68(b) through (d).
- Subpart H. [40 CFR 63.1.68(i)(1)]
- 130 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.1.68(b) through (d). Subpart H. [40 CFR 63.1.68(i)(3)]
- Which Months: All Year Statistical Basis: None specified
- 131 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1.69(c). Subpart H. [40 CFR 63.1.69(a)]
- Which Months: All Year Statistical Basis: None specified
- 132 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.1.71. Subpart H. [40 CFR 63.1.69(c)]
- 133 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.1.72, except as provided in 40 CFR 63.1.62(b), or comply with the requirements of 40 CFR 63.1.19(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.1.70]
- 134 Closed-vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.1.80(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.1.72(h). Subpart H. [40 CFR 63.1.72(f)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 135 Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.1.72(h). Subpart H. [40 CFR 63.1.72(f)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 136 Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.1.80(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.1.72(h). Subpart H. [40 CFR 63.1.72(f)(2)(i)]
- Which Months: All Year Statistical Basis: None specified
- 137 Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.1.80(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.1.72(h). Subpart H. [40 CFR 63.1.72(f)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified

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- 138 Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(j). Subpart H. [40 CFR 63.172(h)]
- 139 Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes. Install flow indicator at the entrance to any bypass line. Subpart H. [40 CFR 63.172(j)(1)]
- Which Months: All Year Statistical Basis: None specified
- 140 Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Generate records as specified in 40 CFR 63.118(a)(3). Subpart H. [40 CFR 63.172(j)(1)]
- 141 Closed-vent system (bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart H. [40 CFR 63.172(j)(2)]
- 142 Closed-vent system (unsafe-to-inspect): Demonstrate that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential dangers as a consequence of complying with 40 CFR 63.172(f)(1) or (f)(2). Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(1)]
- 143 Closed-vent system (unsafe-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times, but not more frequently than annually. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(2)]
- Which Months: All Year Statistical Basis: None specified
- 144 Closed-vent system (difficult-to-inspect): Demonstrate that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(1)]
- 145 Closed-vent system (difficult-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every five years. Maintain a written plan that requires inspection of the equipment at least once every five years. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(2)]
- Which Months: All Year Statistical Basis: None specified
- 146 Ensure that the closed-vent system or control device is operating whenever organic HAP emissions are vented to the closed-vent system or control device. Subpart H. [40 CFR 63.172(m)]
- 147 Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]
- Which Months: All Year Statistical Basis: None specified
- 148 Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]
- Which Months: All Year Statistical Basis: None specified
- 149 Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]
- 150 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure, or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(1)]

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- 151 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(2)]
- 152 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(3)]
- 153 Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(4)]
- Which Months: All Year Statistical Basis: None specified
- 154 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(5)]
- 155 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)]
- 156 Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)]
- Which Months: All Year Statistical Basis: None specified
- 157 Agitators in gas/vapor service or light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.173(b)(1) and (d)(4), and the daily requirements of 40 CFR 63.173(d)(5). Subpart H. [40 CFR 63.173(e)]
- Which Months: All Year Statistical Basis: None specified
- 158 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(3)]
- Which Months: All Year Statistical Basis: None specified
- 159 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(3)]
- 160 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(1)]
- 161 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(2)]
- Which Months: All Year Statistical Basis: None specified

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- 162 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]
Which Months: All Year Statistical Basis: None specified
- 163 Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]
Which Months: All Year Statistical Basis: None specified
- 164 Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]
Which Months: All Year Statistical Basis: None specified
- 165 Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(i). Subpart H. [40 CFR 63.174(c)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 166 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]
Which Months: All Year Statistical Basis: None specified
- 167 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
Which Months: All Year Statistical Basis: None specified
- 168 Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]
169 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(1)]
170 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(2)]
Which Months: All Year Statistical Basis: None specified
- 171 Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Comply with this requirement instead of the requirements in 40 CFR 63.174(a), (d), and (e). Subpart H. [40 CFR 63.174(g)]
172 Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Comply with this requirement instead of the monitoring requirements of 40 CFR 63.174(h)(2) Subpart H. [40 CFR 63.174(h)(2)]
173 Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]
174 Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H. [40 CFR 63.180]
175 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181 (a) through (k). Subpart H. [40 CFR 63.181]

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- 176 Submit Initial Notification: Due within 120 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 177 Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 178 Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]

GRP016 Blend Tank Group

- 179 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHAP Subpart F quarterly report. Determined as MACT. [LAC 33:III.5109.A]
- 180 Weighted average residual concentration: Vinyl chloride \leq 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
Which Months: All Year Statistical Basis: None specified

GRP017 Screen Filter Receiver Group

- 181 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: None specified
- 182 The dust filters shall be maintained and operated properly. Filter vents shall be inspected for visible emissions on a daily basis. The filter elements (bags) shall be inspected every six months or whenever visual checks indicate maintenance may be necessary. Elements shall be changed as necessary. Records of visual checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement) [LAC 33:III.501.C.6]
- 183 Weighted average residual concentration: Vinyl chloride \leq 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
Which Months: All Year Statistical Basis: None specified

GRP018 Day Tank Group

- 184 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: None specified
- 185 The dust filters shall be maintained and operated properly. Filter vents shall be inspected for visible emissions on a daily basis. The filter elements (bags) shall be inspected every six months or whenever visual checks indicate maintenance may be necessary. Elements shall be changed as necessary. Records of visual checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement) [LAC 33:III.501.C.6]

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GRP018 Day Tank Group

- 186 The requirements in this group (Group 18 - Day Tank Group) apply to Day Tanks 1 through 10 when the tanks operate in PVC service. Day Tanks 9 and 10 (ETQ Nos. 2-82 and 3-82, respectively) can be taken out of PVC service and can be used to store centrate water. These requirements are therefore not applicable to these tanks when in centrate water service. See Groups 60 and 61 of the Specific Requirements section of this permit for the alternate scenario requirements for Day Tanks 9 and 10 when in centrate water service. [LAC 33:III.501.C.6]
- 187 Weighted average residual concentration: Vinyl chloride ≤ 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(i)(ii)]
Which Months: All Year Statistical Basis: None specified
- 188 Opacity ≤ 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C.]
Which Months: All Year Statistical Basis: None specified

189 The dust filters shall be maintained and operated properly. Filter vents shall be inspected for visible emissions on a daily basis. The filter elements (bags) shall be inspected every six months or whenever visual checks indicate maintenance may be necessary. Elements shall be changed as necessary. Records of visual checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. (State-Only Requirement). [LAC 33:III.501.C.6]

190 Weighted average residual concentration: Vinyl chloride ≤ 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(i)(ii)]
Which Months: All Year Statistical Basis: None specified

GRP023 Slurry Dump Tank Group

- 191 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHPA Subpart F quarterly report. Determined as MACT. [LAC 33:III.SI.09.A]
- 192 Weighted average residual concentration: Vinyl chloride ≤ 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(i)(ii)]
Which Months: All Year Statistical Basis: None specified

GRP025 Centrifuge Group

- 193 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Permittee shall strip PVC slurry to 47.5 ppm vinyl chloride or less on a reporting quarterly average. The daily averages and the quarterly average, and calculated total VCM emissions in tons/quarter after the stripper shall be reported quarterly to the Air Quality Division concurrently with the NESHPA Subpart F quarterly report. Determined as MACT. [LAC 33:III.SI.09.A]
- 194 Weighted average residual concentration: Vinyl chloride ≤ 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(i)(ii)]
Which Months: All Year Statistical Basis: None specified

GRP042 PVC Plant

SPECIFIC REQUIREMENTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

GRP042 PVC Plant

- 195 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1.305.1.-7. [LAC 33:III.1.305]
- 196 Equip all rotary pumps and compressors handling VOCs with true vapor pressure ≥ 1.5 psia with mechanical seals. [LAC 33:III.2111]
- 197 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1.-5. [LAC 33:III.2113.A]
- 198 Particulate matter (10 microns or less) ≤ 54.80 tons/yr. [LAC 33:III.501.C.6]
 - Which Months: All Year Statistical Basis: Annual maximum
- 199 VOC, Total ≤ 49.27 tons/yr. [LAC 33:III.501.C.6]
 - Which Months: All Year Statistical Basis: Annual maximum
- 200 Chloroform ≤ 0.20 tons/yr. [LAC 33:III.501.C.6]
 - Which Months: All Year Statistical Basis: Annual maximum
- 201 Methanol ≤ 12.95 tons/yr. [LAC 33:III.501.C.6]
 - Which Months: All Year Statistical Basis: Annual maximum
- 202 Phenol ≤ 1.36 tons/yr. [LAC 33:III.501.C.6]
 - Which Months: All Year Statistical Basis: Annual maximum
- 203 Vinyl chloride ≤ 10.73 tons/yr. [LAC 33:III.501.C.6]
 - Which Months: All Year Statistical Basis: Annual maximum
- 204 Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene (State-Only Requirement). [LAC 33:III.501.C.6]
- 205 Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit (State-Only Requirement). [LAC 33:III.501.C.6]
- 206 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51. Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51. Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 207 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 208 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 209 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51. Subchapter A. [LAC 33:III.5105.A.4]
- 210 Submit Annual Emissions Report (TED): Due annually, by the 1st of July, to the Office of Environmental Services, Permits Division in a form specified by the department.
 - Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 211 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under both state and federal regulations." [LAC 33:III.5107.A.3]

SPECIFIC REQUIREMENTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

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Permit Number: 881-V2

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- 212 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 213 Submit notification: Due to the Office of Environmental Compliance no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, where the emission control bypass was not the result of an upset, except as provided in LAC 33:III.5107.B.6. Notify by telephone at (225) 763-3908 during office hours, (225) 342-1234 after hours, weekends, and holidays, or by email utilizing the Incident Report Form and procedures found at www.deq.state.la.us/surveillance. [LAC 33:III.5107.B.2]
- 214 Submit notification: Due to the Office of Environmental Compliance immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere which does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.5107.B.6. Notify by telephone at (225) 763-3908 during office hours, (225) 342-1234 after hours, weekends, and holidays, or by email utilizing the Incident Report Form and procedures found at www.deq.state.la.us/surveillance. [LAC 33:III.5107.B.3]
- 215 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 216 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 217 Submit to DEQ a compliance plan for achieving compliance with the ambient air standard(s), in accordance with LAC 33:III.5109.D. Include the elements listed under LAC 33:III.5109.E. [LAC 33:III.5109.B.1]
- 218 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 219 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 220 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 221 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 222 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 223 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 224 Submit test results: Due in writing to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. Submit test results signed by the person responsible for the test. [LAC 33:III.5113.B.1]
- 225 Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ. [LAC 33:III.5113.B.2]
- 226 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]

SPECIFIC REQUIREMENTS

AU ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

GRP042 PVC Plant

- 227 Provide emission testing facilities as specified in LAC 33:III.5113.B.4. a through e. [LAC 33:III.5113.B.4]
- 228 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 229 Submit certified letter. Due to the Office of Environmental Assessment, Environmental Technology Division before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 230 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 231 Submit notification. Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 232 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 233 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 234 Submit performance evaluation report. Due to the Office of Environmental Assessment, Environmental Technology Division within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 235 Submit notification in writing. Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 236 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 237 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 238 Submit report. Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 239 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 240 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 241 Submit plan. Due to the Office of Environmental Assessment, Environmental Technology Division within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 242 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 243 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.511.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.511.F.1.f]
- 244 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 245 Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 246 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]

SPECIFIC REQUIREMENTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

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Air - Title V Regular Permit Minor Mod

GRP042 PVC Plant

- 247 Submit Emission Inventory (EI)/Annual Emissions Statement Due annually, by the 31st of March for the period January 1 to December 31 of the previous year. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.91.9.A-D. [LAC 33:III.91.9.E]
- 248 Permittee shall comply with all applicable requirements of LAC 33:III.Chapter 59. [LAC 33:III.Chapter 59]
- 249 Permittee shall use 40 CFR 61 Subpart F, Appendix B, Method 106 to determine vinyl chloride in stack gases to demonstrate compliance with exhaust VCM standard of 10 ppm (stripper vent and all sources preceding stripper, which are ducted first to the recovery system and then to the VCM Plant Incinerators). [40 CFR 60, App B]
- 250 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61.01]
- 251 Reactor: Vinyl chloride ≤ 1.0 ppm, except as provided in 40 CFR 61.64(a)(2) and 40 CFR 61.65(a). Subpart F. [40 CFR 61.64(a)(1)]
- Which Months: All Year Statistical Basis: Three one-hour test average
- 252 Stripper: Vinyl chloride ≤ 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.64(b)]
- Which Months: All Year Statistical Basis: Three-hour average
- 253 Mixing, weighing, and holding containers: Vinyl chloride ≤ 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.64(c)]
- Which Months: All Year Statistical Basis: Three-hour average
- 254 Monomer recovery system: Vinyl chloride ≤ 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.64(d)]
- Which Months: All Year Statistical Basis: Three-hour average
- 255 Weighted average residual concentration: Vinyl chloride ≤ 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
- Which Months: All Year Phases: Statistical 1 Basis:
- 256 Relief valves: Do not discharge to the atmosphere from any relief valve on any equipment in vinyl chloride service, except for an emergency relief discharge, and except as provided in 40 CFR 61.65(d). Subpart F. [40 CFR 61.65(a)]
- 257 Relief valves: Submit report in writing within 10 days of any relief valve discharge, except for those subject to 40 CFR 61.65(d). Submit a report containing information on the source, nature and cause of the discharge, the date and time of the discharge, the approximate total vinyl chloride loss during the discharge, the method used for determining the vinyl chloride loss (the calculation of the vinyl chloride loss), the action that was taken to prevent the discharge, and measures adopted to prevent future discharges. Subpart F. [40 CFR 61.65(a)]
- 258 Duct all gases which are manually vented from equipment in vinyl chloride service through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 1.0 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(5)]
- 259 Vinyl chloride ≤ 2 percent percent of the equipment's containment volume, or vinyl chloride ≤ 0.0950 cubic meters (25 gallons), whichever is larger, at standard temperature and pressure, before opening any equipment for any reason. Subpart F. [40 CFR 61.65(b)(6)(i)]
- Which Months: All Year Statistical Basis: None specified
- 260 Duct any vinyl chloride removed from the equipment in accordance with 40 CFR 61.65(b)(6)(i) through a control system from which the concentration of vinyl chloride in the exhaust gas does not exceed 1.0 ppm (average for 3-hour period) or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(6)(ii)]
- 261 VCM Concentration: Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Area leak detection system. [40 CFR 61.65(b)(8)(i)]
- Which Months: All Year Statistical Basis: None specified
- 262 Operate a reliable and accurate vinyl chloride monitoring system in accordance with the specifications in 40 CFR 61.65(b)(8)(i) for detection of major leaks and identification of the general area of the plant where a leak is located. Subpart F. [40 CFR 61.65(b)(8)(i)]
- 263 Improcess wastewater (vinyl chloride > 1.0 ppm): Vinyl chloride ≤ 1.0 ppmw before being mixed with any other improcess wastewater stream which contains less than 1.0 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AJ ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

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- 264 Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]
- 265 Reduce VCM in each in process wastewater stream to <= 10 ppm before mixing with other streams which contain <= 10 ppm, before being exposed to atmosphere, and before discharging. VCM removed from wastewater shall be ducted through a control system from which the concentration of vinyl chloride in the exhaust gases is <= 10 ppm (average for 3-hour period). [40 CFR 61.65(b)(9)]
- 266 Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
- 267 Vinyl chloride recordkeeping by electronic or hard copy as needed. For exhaust gas emissions determined per 40 CFR 61.68(e) to be in excess of emission limits, record source I. D., the date, time, and duration of excess emission, cause, total VCM loss during excess emission, and method used to compute loss. This applies to all exhaust streams preceding and including the strippers that vent to the monomer recovery system and also applies to the bypass of recovery system and controls per 40 CFR 61.68(d). [40 CFR 61.68(f)]
- 268 Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a), and 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F. [40 CFR 61.68]
- 269 Which Months: All Year Statistical Basis: None specified
Submit report Due quarterly, by the 15th of March, June, September and December. Submit report according to the schedule specified in 40 CFR 61.70(a) and (b). Include the information specified in 40 CFR 61.70(c)(1) through (c)(4), as applicable. Subpart F. [40 CFR 61.70]
- 270 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71 (a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
- 271 Permittee shall use 40 CFR 61 Subpart F, Appendix B, Method 107 or Method 601, to determine vinyl chloride in inprocess wastewater to demonstrate compliance with 40 CFR 61.65(b)(9)(i). [40 CFR 61 .App B]
- 272 Permittee shall use 40 CFR 61 Subpart F, Appendix B, Method 107 to determine vinyl chloride in PVC resins to demonstrate compliance with the NESHAP standard of 400 ppm VCM in resins (resin discharged from stripper and all other sources downstream of the stripper). [40 CFR 61 .App B]
- 273 Permittee shall comply with all applicable requirements of 40 CFR 61 Subpart F. [40 CFR 63.21 4(a)]
- 274 Permittee shall comply with all applicable requirements of 40 CFR 68. [40 CFR 68.1]

GRP059 V-CAP CAP - PVC Plant Emissions

SPECIFIC REQUIREMENTS

AI ID: 2455 - Georgia Gulf Chemicals & Viny's LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

GRP059 V-CAP CAP - PVC Plant Emissions

275 Compliance with the capped emission rates shall be achieved by-

(1) Monitoring the Reactor Opening Losses (ROL) (EIQ No. 19-80) in accordance with all applicable requirements of 40 CFR 61 Subpart F (National Emission Standard for Vinyl Chloride) and 40 CFR 63 Subpart J (NESHAP for Polyvinyl Chloride and Copolymers Production). ROL will be determined as per the equation in 40 CFR 61.67(g)(5)(i); vinyl chloride concentrations in the reactor will be determined as per 40 CFR 61.67(g)(5)(ii)(B).

(2) Monitoring the production of PVC resin and residual vinyl chloride monomer (RVCM) in accordance with 40 CFR 61 Subpart F and 40 CFR 63 Subpart J. RVCM shall be determined by 40 CFR 61 Subpart F, Appendix B, Method 107. VCM emissions shall be determined by subtracting from the RVCM calculated by method 107 the RVCM amount retained in the final product sent off-site to the customer. The amount of VCM retained in the final product sent off-site to the customer shall be determined based on the results of the 1994 PVC Allocation Study, the results of this study shall be kept on-site and made available for inspection by DEQ personnel. VCM from fugitive emissions shall be determined per the LDAR program.

(3) Monitoring the fugitive emissions in accordance with the facility's LDAR program - 40 CFR 63 Subpart H (HON).

(4) Monitoring the dryer throughput for particulate matter - 10 micron (PM-10) emissions. PM-10 emissions from the dryers will be calculated as follows: PM-10 (lbs/hr) = (Feed rate of PVC to dryer (lbs/yr)) X (Control device efficiency (%)) X (Particulate matter distribution (%)) as PM-10.

(5) VCM emissions from the PVC Research Facility (EIQ No. 1-82) shall be determined as follows: VCM (lb/yr) = (Number of batches per year) X (Total VCM used per batch (lb VCM/batch)) X (Percentage of unreacted VCM). [LAC 33:III.501.C.6]

276 Equipment/operational data recordkeeping by electronic or hard copy semiannually. Keep semiannual records of the total calculated emissions of all regulated pollutants in the PVC Plant Emissions Cap (EIQ No. V-CAP). The records shall be made available for inspection by DEQ personnel by August 1 5th for emissions from January 1 st through June 30th, and by March 31st for emissions from July 1 st through December 31 st. Maintain records for a period of five years. [LAC 33:III.501.C.6]

277 Submit report Due annually, by the 31st of March. Report the total calculated emissions of all regulated pollutants included in the PVC Plant Emissions Cap (EIQ No. V-CAP) to the Office of Environmental Compliance, Enforcement Division. The report shall be submitted on a calendar year basis. The March 31st report shall cover emissions from January 1 st through December 31 st for the preceding calendar year. [LAC 33:III.501.C.6]

278 Equipment/operational data monitored by technically sound method at the regulations specified frequency. [LAC 33:III.501.C.6]
Which Month: All Year Statistical Basis: None specified

GRP060 Alternate Scenario for 2-82 - Day Tank No. 9

279 Submit notification Due to the permitting authority prior to changing scenarios. Include in the notification a description of the proposed action, the rate of the emissions, the identity of the sources involved, and the change in emissions. Make any appropriate permit revision reflecting the emission reduction prior to the commencement of operation and in accordance with the procedures of LAC 33:II.Chapter 5. [LAC 33:III.501.C.6]

280 The requirements in this Group apply when Day Tank 9 (EIQ 2-82) operates in centrate water service. [LAC 33:III.501.C.6]

GRP061 Alternate Scenario for 3-82 - Day Tank No. 10

281 Submit notification Due to the permitting authority prior to changing scenarios. Include in the notification a description of the proposed action, the rate of the emissions, the identity of the sources involved, and the change in emissions. Make any appropriate permit revision reflecting the emission reduction prior to the commencement of operation and in accordance with the procedures of LAC 33:II.Chapter 5. [LAC 33:III.501.C.6]

282 The requirements in this Group apply when Day Tank 10 (EIQ 3-82) operates in centrate water service. [LAC 33:III.501.C.6]

GRP062 Cooling Tower Group

SPECIFIC REQUIREMENTS

AI ID: 2455 - Georgia Gulf Chemicals & Vinyls LLC

Activity Number: PER20050018

Permit Number: 881-V2

Air - Title V Regular Permit Minor Mod

GRP062 Cooling Tower Group

283 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

284 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. These cooling towers are permitted in accordance with the National Pollution Discharge Elimination System (NPDES) permitting procedures. Permittee shall comply with all applicable permitting requirements of 40 CFR 41.4 Subpart K (Indirect Discharge Point Sources). Further control is not required. [LAC 33:III.5109.A]